

MANUFACTURERS' RECORD

A Weekly Southern Industrial and Hardware Newspaper.

Vol. XI. No. 21.
WEEKLY.

BALTIMORE, JULY 2, 1887.

\$3.00 A YEAR.
SINGLE COPIES, 10 CENTS.

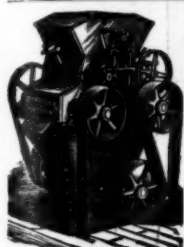
Sole Manufacturers of
EUREKA PACKING

Steam, Hydraulic and Locomotive Packing,
OF EVERY DESCRIPTION.
Send for Prices.

JAS. SMITH & CO.

Works, 413 to 421 Race St., Cor. of Crown.
Office & Store, 137 Market St., Philadelphia.

Dealers in
MANUFACTURERS', MILL and ENGINEERS' SUPPLIES
OF EVERY DESCRIPTION.
CIRCULARS AND PRICE-LISTS MAILED UPON APPLICATION



Milling Outfits for Flour and Meal.

WE MAKE ROLLS AND PORTABLE MILLS COMPLETE.

Manufactory Established in 1851.

Pamphlets with Prices Mailed Free.

NORDYKE & MARMON CO., INDIANAPOLIS, IND.



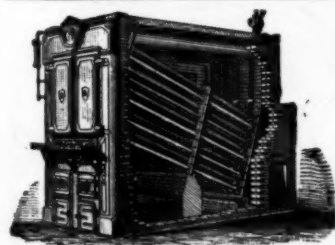
ELEVATORS

Send for Illustrated Circulars.

MORSE ELEVATOR WORKS.
MORSE, WILLIAMS & CO. Successors to CLEM & MORSE
Manufacturers and Builders of HYDRAULIC STEAM, ELEVATORS With most approved Safety Devices.
SKIT and Hand-Power, PASSENGER and FREIGHT Dumb-Waiters, Automatic Hatch-Doors, &c.
Office: 411 CHERRY STREET, PHILADELPHIA, PA.
Works: FRANKFORD AVE., WILDEY & SHACKANAXON STS.
Branch Office, 108 Liberty Street, NEW YORK.

NOTICE TO
Engineers, Contractors,
MINING MEN,
AND OTHERS INTERESTED IN
Tunneling, Shaft-Sinking, Etc.

Engineers' Tables of Progress
With Maps, Illustrations, and Full Description of the
New Croton Aqueduct Tunnel
NEW YORK. Size 16x16 feet; length 36 miles.
Third Edition now Ready. Sent free on Application.
INGERSOLL ROCK DRILL CO., 10 Park Place, New York.



ROOT'S NEW WATER TUBE STEAM BOILER,

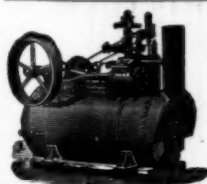
Safe, Economical, Durable.

Abendroth & Root Manufacturing Co.

28 CLIFF STREET, - - - NEW YORK.

SELLING AGENTS:

WIGGS & BACON,
Birmingham, Ala.
A. B. ENSIGN, Esq., Rochester, N. Y.
A. S. FISKE, Esq., 41 Johnston Building,
Cincinnati, O.
WILLIAM H. SMITH, Esq., 115 Dearborn St.
Chicago, Ill.
CHAS. E. ASHCROFT, Esq., 49 Mason Bldg.
Boston, Mass.
V. MERRILL, 149 N. Third Street, Phila., Pa.
JOHN S. MOORE, 169 Gravier Street,
New Orleans, La.
THOS. B. PACKER, 603 Wood Street,
Pittsburgh, Pa.



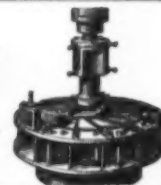
Plantation Engines 8, 10 and 16 HORSE POWER.
FOR DRIVING Cotton Gins & Mills. with **Return Flue Boilers.**
Illustrated Engine Pamphlet Sent Free.

JAS. LEFFEL & CO., 68 & 69 Wayne St., Springfield, OHIO, or 110 Liberty St., NEW YORK.

THE "OLD RELIABLE"
"Jas. Leffel Turbine Wheel"

The Best Water Wheel Ever Built.

If you are in need of a new or second-hand Wheel, write for our new Pocket Water Wheel Book for 1886. Address



THE MEDART PATENT
WROUGHT RIM PULLEY.

OVER 300,000 NOW IN USE. THE LIGHTEST, STRONGEST, BEST BALANCED and CHEAPEST in the WORLD.

Shafting, Hangers, Couplings, &c.

MEDART PATENT PULLEY CO., 1206 TO 1214 N. MAIN STREET, ST. LOUIS, MO.
Stores: 99 to 101 W. Second St., Cincinnati. 24 & 26 S. Canal St., Chicago

FRANK W. SWETT, MANUFACTURER OF BAND SAWS, 69 SOUTH CANAL ST. CHICAGO, ILL. **EVERY BLADE WARRANTED.**

THE · ALTERNATING · SYSTEM.



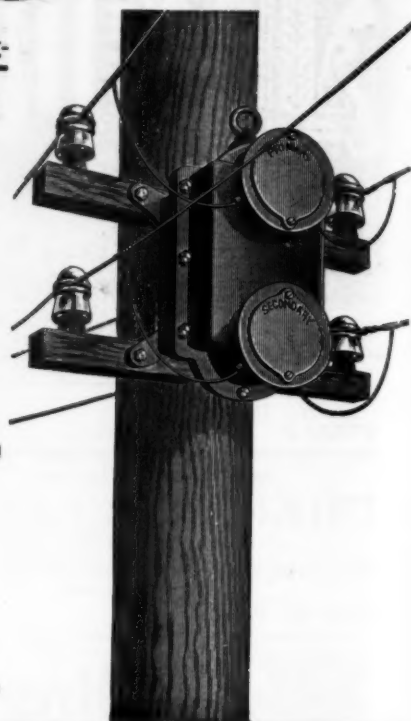
Incandescent Electric Light-
ing from Central Stations
made Universal, Eco-
nomical and Profita-
ble, irrespective of
distance.

THE Westinghouse Electric Co.

PITTSBURGH, PA.

Eastern Office:

17 Cortlandt St., New York.



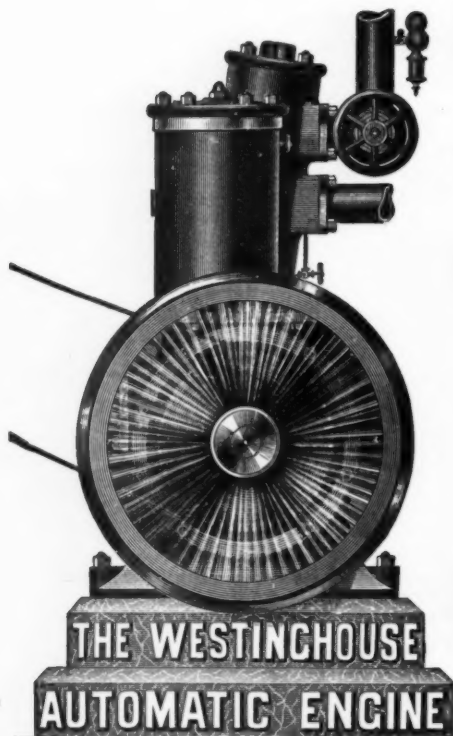
WESTINGHOUSE, CHURCH, KERR & CO.

Contracting and Consulting Engineers,

17 Cortlandt St., New York.

Hamilton Building, Pittsburgh, Pa.

The Westinghouse Automatic Engine, PRICES REDUCED.



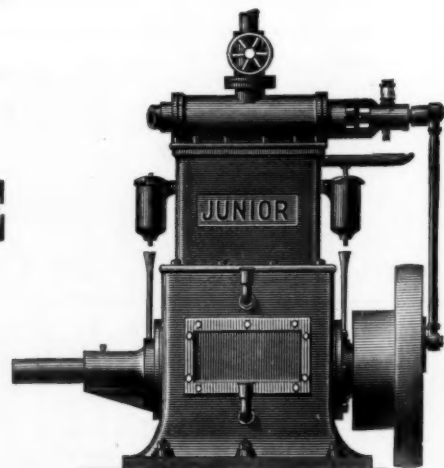
Condemned by its competitors and Endorsed
by its users.

The "JUNIOR" AUTOMATIC ENGINE

15, 25 and 35 H. P. Only.

THE LOWEST-PRICED ENGINE
IN THE MARKET.

Well Built and Serviceable.



THE WESTINGHOUSE MACHINE CO.
Pittsburgh, Pa.

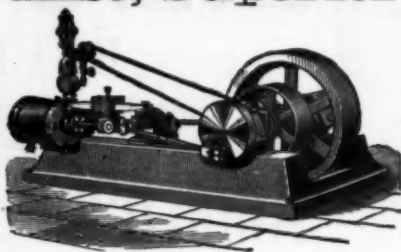
SALES DEPARTMENT FOR THE UNITED STATES CONDUCTED BY

WESTINGHOUSE, CHURCH, KERR & CO.,
17 Cortlandt St., N. Y. Hamilton Building, Pittsburgh, Pa.
FAIRBANKS, MORSE & CO., - - - - - Chicago, Ill.
FAIRBANKS & CO., - - - - - St. Louis, Mo.
PARKE & LAOY, - - - - - San Francisco, Cal.
UTAH & MONTANA MACHINERY CO., - - - - - Salt Lake, Utah.

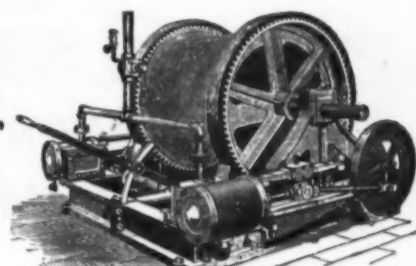
D. A. TOMPKINS & CO., - - - - - Charlotte, N. C.
ROBERT MIDDLETON, - - - - - Mobile, Ala.
H. DUDLEY COLEMAN, - - - - - New Orleans, La.
KEATING IMPLEMENT & MACHINE CO., - - - - - Dallas, Tex.
IRON BAY MANUFACTURING CO., - - - - - Marquette, Mich.

HOISTING ENGINES FOR MINES, FURNACE AND FACTORY.

—Also, Superior Boilers.—



MINE
AND
Furnace Hoists.
HORIZONTAL
Engines
For Manufacturing.



LIDGERWOOD MFG. CO. No. 96 Liberty St.
New York.

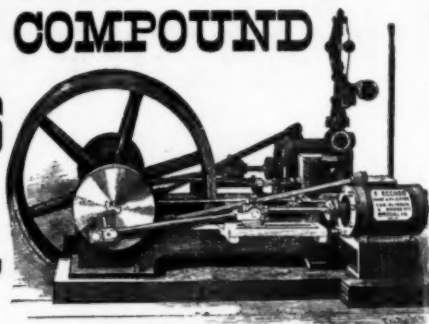
HIGH SPEED COMPOUND**Steam Engines**

For Manufacturing and Electrical Purposes.

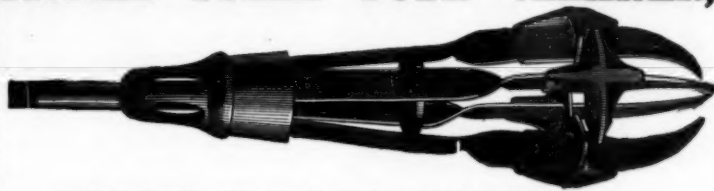
F. ROCHOW,

SOLE MANUFACTURER,

36 Bridge St., Brooklyn, N. Y.



STEAM PUMPS for Hot or Cold, Fresh or Salt Water; for Oils, Naphtha, Tar; for Cane Juice, Liquors, Syrups, Scum; for Ammonia, Alkalies, Extracts, Acids; for Thick, Volatile, Viscous or Foul Liquids, etc. **Vacuum Pumps** of the highest efficiency. **Filter Press Pumps.** Air, Gas and Acid Blowers. **Air Compressors.** Etc.
BUILT BY GUILD & GARRISON, Brooklyn, N. Y.

NATIONAL STEEL TUBE CLEANER,For Cleaning
Boiler Tubes.

ENDORSED BY THE BEST ENGINEERS.

THE CHALMERS-SPENCE CO., 419 East 8th St., NEW YORK.**SWIFT RUNNING EMERY WHEELS.**

The Original SOLID VULCANITE

EMERY + WHEELS.

Runs Easy and Safe, Cool and True.

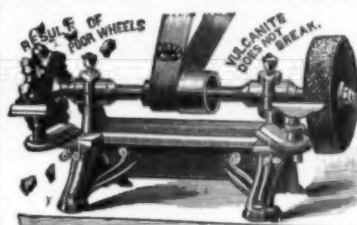
Is More Durable—Hence Cheaper.

A trial will convince you of this. Knife-Grinding Wheels a Specialty.

NEW YORK BELTING & PACKING CO.

Sole Manufacturers,

J. H. CHERVEL, Treas. 15 Park Row, NEW YORK.

**AMERICAN SUPPLY COMPANY,**

Formerly Myron Fish & Co., of Valley Falls, R. I., and Kendrick Loom Harness Co., of Providence, R. I.

—MANUFACTURERS OF—

LOOM HARNESS AND REEDS,

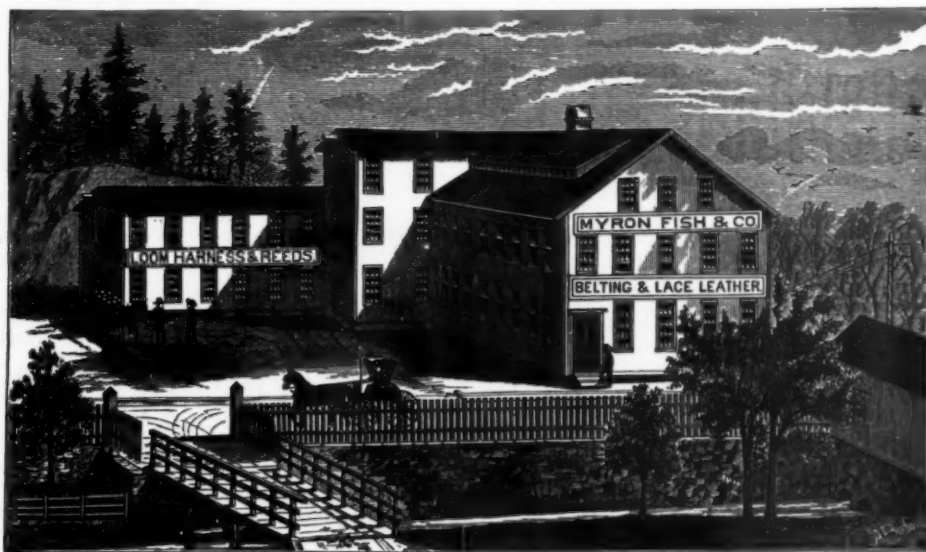
Oak Belting, Lace and Picker Leather, and Dealers in Supplies for Cotton, Woolen and Silk Mills.

Agents for Joseph Neone's Sons'
Roller, Slasher & Clearing Cloths.

—Agents for—

RODDICK'S PATENT IMPROVED OIL CANS.

Calf, Sheep and Lamb Roller Skins, and Roll Covers' Tools.



WE HAVE
Unequalled Facilities for Furnishing
Shuttles & Heddle Frames,
WIRE HEDDLES & WIRE GOODS
Of all Descriptions.

—Special Notice to Worsted and Silk Mills.—

We Manufacture both Worsted and Cotton Machine-Knit Mail Harness for Weaving Fine Worsted and Silk Goods. Also a Full Line of Supplies for Jacquard Looms.

Office and Salesrooms, 10 Exchange Place, Providence, R. I. —FACTORIES:— PROVIDENCE and VALLEY FALLS, R. I.

A. D. LOCKWOOD, Pres. JOHN KENDRICK, Vice-Pres. MYRON FISH, Treas. JOHN A. CARTER, Sec. JOSEPH H. KENDRICK, Gen'l Agent

H. C. SILSBY, PRESIDENT. MORACE SILSBY, V. PRES.
CHARLES T. SILSBY, TREAS. WILLIAM S. SILSBY, SECY.

THE SILSBY MANUFACTURING COMPANY, SENECA FALLS, N. Y.

FOUNDED IN 1845.

SILSBY STEAM-FIRE ENGINES
HOSE-CARRIAGES, CARTS & WAGONS.

STEEL BOILERS FOR STEAM HEATING

HOLLY, ROTARY, PUMPS
FOR POWER, STEAM or HAND.

FIRE DEPARTMENT SUPPLIES

New York Office
51 JOHN ST.



THE RICHMOND

Fire Alarm, Police and Patrol

TELEGRAPH SYSTEMS.

Adopted by the Most Progressive Cities in the United States.

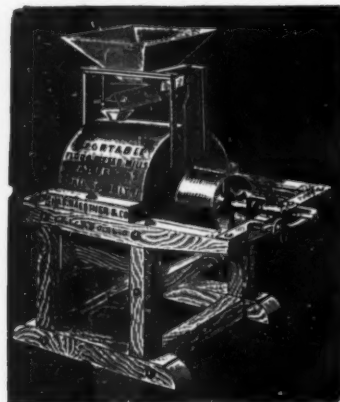
MANUFACTURED BY

THE RICHMOND FIRE ALARM CO.

Correspondence Solicited. **RICHMOND, IND.** Send for Catalogue.

KAESTNER Patent GRINDING MILLS

Over 7,000 in Use.



SATISFACTION GUARANTEED OR MONEY REFUNDED.

Warranted the most durable, easiest operated and fastest grinding mills made. Any man of ordinary intelligence can operate them. Having positive feed they cannot be clogged. Using only Genuine Buhr Stones on our mills, they are successfully used for GRINDING ALL KINDS OF Grain, Drugs, Cement & Phosphates.

CAPACITY UNEQUALED.

If you want a Grinding Mill let us make you price.

CHAS. KAESTNER & CO., Sole Builders,
MACHINISTS, FOUNDERS AND MILL FURNISHERS,
Engines, Boilers, Pumps, Belting, Hose, &c.
Shafting, Pulleys, Hangers, Gearing, Friction Clutches.
303 and 311 SOUTH CANAL ST., CHICAGO, ILL.

The Geo. L. Squier Mfg. Co.

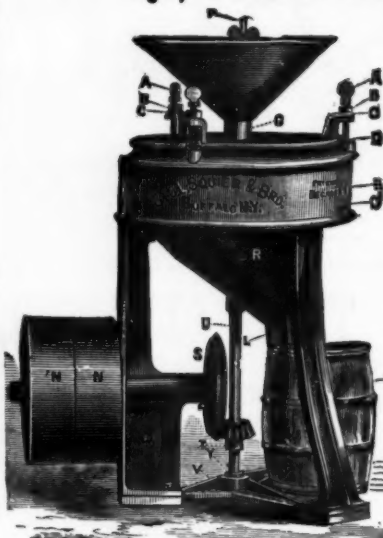
BUFFALO, N. Y.

Sole Manufacturers of the Celebrated

American Cane

AND Rice Machinery.

Eighty Sizes of Cane Mills, Vacuum Pans and Pumps,



RICE HULLER No. X.

Bone Coal Filters and Kilns,
Mixers,
Centrifugals, Evaporators, etc.

Rice Threshers, Hullers, Separators, Scourers
AND POLISHERS.

Engines, Horse-Powers, Boilers, etc.

THE HERCULES WIND ENGINE,

The Most Reliable, Durable and Effective Wind Engine for Power and Pumping purposes ever placed upon the market. Send for Catalogue.

Information and prices given on all classes of machinery. Correspondence solicited. Premiums awarded at World's Exposition, New Orleans.

F. W. DEVOE & CO.

(ESTABLISHED 1852.)

OFFICES: Fulton Street, Corner William,
NEW YORK.

PURE MIXED PAINTS.

If you think of doing any painting this spring, we wish to call your attention to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil, and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fire-Proof."

We use no secret or patent method in manufacturing them, by which benzine and water are made to serve the purpose of pure linseed oil.

Samples of Fifty Desirable Shades for consumers on request.

Elastic ROOF Paint,

A special paint for roofs, which remains elastic, and will not chip or peel off.

Fine Varnishes, Artists' Materials,

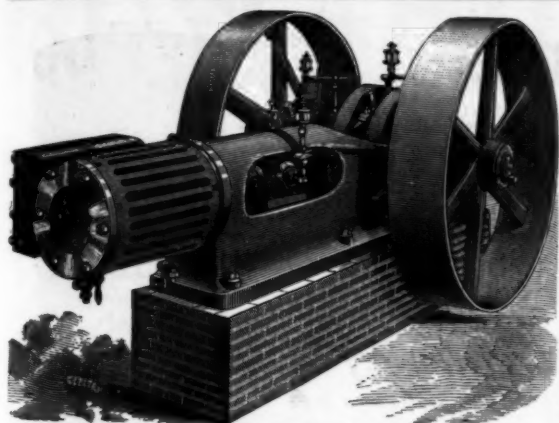
PAINTERS' SUPPLIES OF ALL KINDS,

Mathematical Instruments and Engineers' Goods.

Catalogues of our different departments to responsible parties.

Cor. Fulton and William Sts.
NEW YORK.

COFFIN, DEVOE & CO.
176 Randolph Street, CHICAGO.



This Pattern of
The Payne Automatic
ENGINE

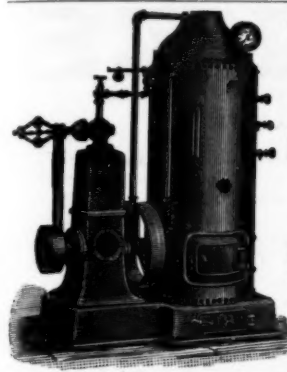
Is conceded to be the most
reliable and economical
**FOR ELECTRIC
LIGHTING**
EVER DESIGNED.

A full line of Verti-
cal, Portable and Sta-
tionary Engines and
Boilers always in
stock.

It will pay you to correspond with us before buying.

B. W. PAYNE & SONS

BOX 1018. ELmira, N. Y.
107 Liberty St., New York. 10 S. Canal St., Chicago. Baltimore—Morton, Reed & Co.



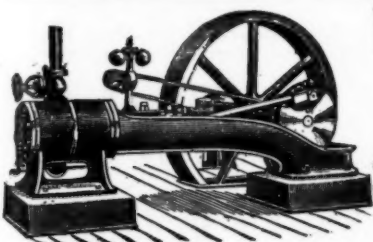
The Castle Engine

A New Mechanical Movement.
More Economical after years of use than the Slide-Valve Engine
WHEN NEW

THE EXTREME OF SIMPLICITY.

Only eight moving pieces, and but twenty altogether. Not a
rotary, but a piston engine using the steam expansively. Cannot
be tampered with. No packing against steam. Noiseless. Takes
up its own lost motion while running. Self-lubricating—having very
large bearing surfaces with brass boxes. You cannot know its worth
until you investigate. High-test steel boilers, 2 to 10 horse powers.
Send for new circular No. 7. Address,

CASTLE ENGINE WORKS,
Indianapolis, Ind.



WRIGHT & ADAMS CO.
QUINCY, ILL.

BUILDERS OF
**Automatic Cut-Off
ENGINES**

Double Drum Derrick Engines. Single Drum
Reversing Engines, suitable for Mines
and Rapid Hoisting.

Correspondence respectfully solicited.

Catalogue sent on application.

Erie Engine Works.

Cleveland & Hardwick,
ERIE, PA., U. S. A.

Stationary,
Detached,
Portable,
Semi-Portable,
Agricultural,

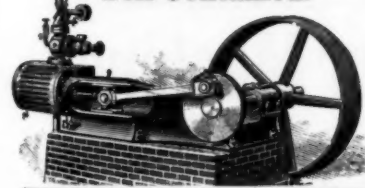
Portable,
Stationary,
Vertical,

Engines. Boilers.

Send or Catalogue and Prices.

Chandler & Taylor's STEAM ENGINES

Self-Contained.



Are Strong, Well-Built and Serviceable.
Are designed for Heavy and Continuous
Work.

May be run at High Speed when desired,
performing the duties of High Grade
Engines.

And are sold at the prices of ordinary
Engines.

For Prices and Descriptive Circulars, address
CHANDLER & TAYLOR,
INDIANAPOLIS, IND.

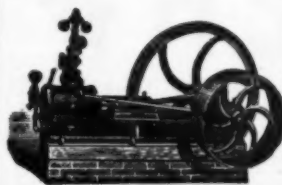
Look Carefully through this paper and
you may find an advertisement of some
machinery or other goods that you are in
need of. Preserve this copy for future refer-
ence.

FOR THE LOWEST-PRICED FIRST-CLASS

Engines & Boilers

ADDRESS

GEO. W. TIFFT, SONS & CO.
Buffalo, N. Y.



5 to 500 H. P. Special stock sizes 5 to 50 H. P., both Stationary and Semi-Portable.

CORRESPONDENCE SOLICITED.

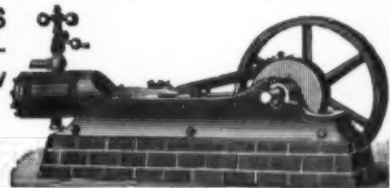
MENTION THIS PAPER

SKINNER ENGINE CO. Erie, Pa.

Awarded THREE GOLD MEDALS
by the World's Industrial and Cot-
ton Centennial Exposition of New
Orleans, La.

More than 2000 in Use.

Manufacturers of Portable and Stationary Engines and Boilers,
including the well known Skinner Portable return flue boiler.
Send for **ILLUSTRATED CATALOGUE AND PRICES**



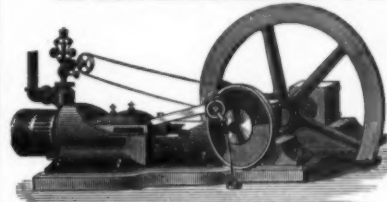
HAMILTON WORKS.

WILLIAM TOD & CO.

YOUNGSTOWN, OHIO,

SOLE BUILDERS OF THE

PORTER-HAMILTON ENGINE



50 to 500 Horse-Power. Modern design. PLAIN, STRONG, EFFECTIVE, ECONOMICAL.
COSTS LESS THAN ANY OTHER FIRST-CLASS ENGINE. Send for Photograph.

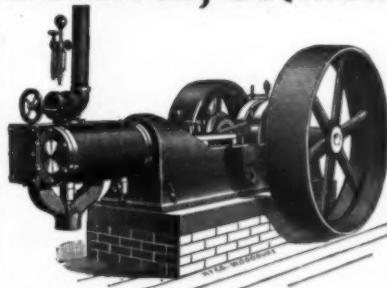
BLAST FURNACE ENGINES ON HAND.

ALSO A STOCK OF OTHER ENGINES (our make.) Prices and description on application.

McIntosh, Seymour & Co., Auburn, N. Y.

Automatic Cut-off Engines

5 to 300 Horse Power.



Economy in Fuel Consumption, close
Regulation, Great Durability and
Simplicity, Perfect Workmanship
and Design.

These Engines are suitable for all purposes,
including use in electric light plants, rolling
mills, etc., where high speed and difficult ser-
vice are required.

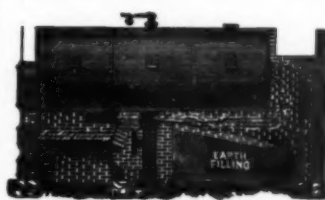
— SELLING AGENTS: —

HARLAN PAGE, 143 & 145 N. 3d St., Phila., Pa.
GEO. A. SMITH, 1419 Main St., Richmond, Va.

BOILERS MAHONING BOILER WORKS
ESTABLISHED 1863.
PIPES, STACKS, BEAMS, ROOF TRUSSES,
BLAST FURNACES & ROLLING MILL WORK.
WM. B. POLLOCK & CO. YOUNGSTOWN, OHIO.

JARVIS PATENT FURNACE

FOR SETTING STEAM BOILERS.



Economy of Fuel, with increased capacity of Steam
Power. Like the Siemens Process of Making
Steel, it utilizes the waste gases with hot air on top of
the fire. Will burn all kinds of waste fuel without a
blast, including Slack Coal, Sawdust, Logwood Chips,
&c. Send for Circulars.

Jarvis Engineering Co.,

A. F. UPTON, Treas. and Gen'l Manager,
61 Oliver St., Boston, Mass.

— SOUTHERN REFERENCES: —

Eagle & Phenix Mfg. Company, Columbus, Ga.
Anniston Mfg. Co., Anniston Ala.
J. P. King Mfg. Co., Augusta, Ga.
Rose Mining Co., Charleston, S. C.
Maryland Pavement Co., Baltimore, Md.
Brush Electric Light Co., Baltimore, Md.
Estrick, Matoca and Battersea Mfg. Co's.,
Petersburg, Va.
Rasin Fertilizing Co., Baltimore, Md.
Tanner & Delaney Engine Co., Richmond, Va.
Sibley Mills, Augusta, Ga.

Graniteville Mfg. Co., Graniteville, S. C.
Charleston Bagging Co., Charleston, S. C.
F. H. Mayo & Bros., Richmond, Va.
Phosphate Mining Co., Beaufort, S. C.
Brush Swan Electric Light Co., Norfolk, Va.
Columbus Ice & Refrigerator Co., Colum-
bus, Ga.
Lenoir Manufacturing Co., Lenoir, East
Tennessee.
Vanclose Mill, Graniteville, S. C.
Charleston Electric Light Co., Charleston, S. C.

Stilwell's Patent Lime Extracting **HEATER AND FILTER** Combined.

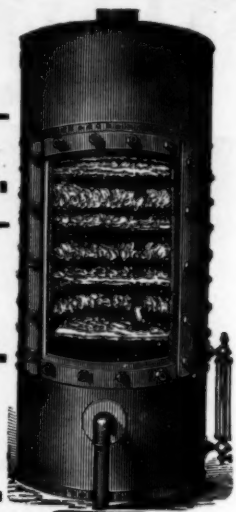
The Only Lime Extracting Heater That Will Prevent Scale in Steam Boilers.

Removing all impurities from the water before it enters the boiler.

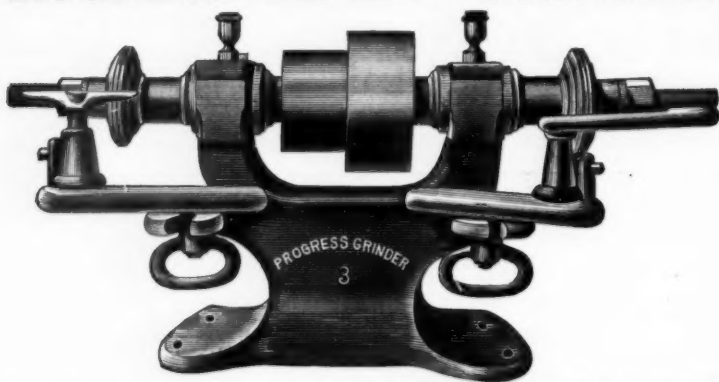
Thoroughly Tested. Over 3,000 of Them in Daily Use.

This cut is a facsimile of the appearance of a No. 5 Heater at work on ordinary lime water, when the door was removed after the Heater had been running two weeks. Illustrated Catalogue Free.

STILWELL & BIERCE MFG. CO., DAYTON, O.

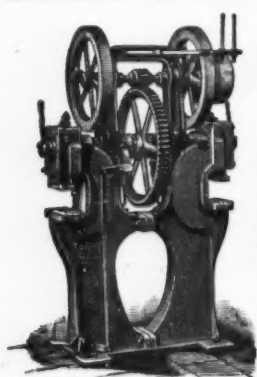


PROGRESS EMERY GRINDERS,



Lathe Heads, Gear Cutters. Kirkwood's Wrought Iron Wind Engine. The Progress Automatic Engine. Pulleys, Hangers and Shafting.

Progress Engine and Machine Works,
M. C. R. R. SUMMERFIELD, MD.



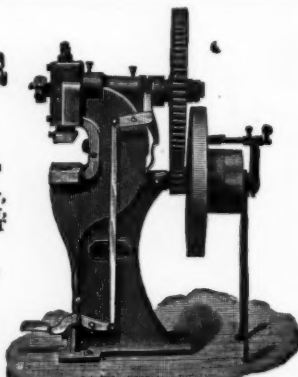
Small Double Machine.

THE
**LONG & ALLSTATTER
COMPANY,**
HAMILTON, OHIO.

Double, Single, Angle-Bar,
Gang, Horizontal, Twin, Boiler,
Spacing, Gate, Multiple, BELT
and STEAM-DRIVEN
PUNCHES and SHEARS,
Over 300 Sizes.

ALSO
Power Cushioned
HAMMER

Send for New Catalogue.



Small Single Machine.

Laundry Machinery.

Largest Stock. Latest Improvements. Fulllest Line.



Washing Machines,
Ironing Machines,
Centrifugal Machines,
Mangles, Wringers, etc.
BOILERS AND ENGINES.

—OUTFITS FOR—
Hotels and Public Institutions

—A SPECIALTY.—
The A. M. DOLPH CO.

295 Wabash Avenue,
CHICAGO, ILL.

Cor. 9th St. and Freeman Ave.,
CINCINNATI, O.

THE MANUFACTURERS' RECORD

IS THE FOREMOST EXPONENT OF THE INDUSTRIAL
INTERESTS OF THE SOUTH,

CRANES For Sale.

Having substituted our HIGH SPEED TRAVELING CRANE for the SWING CRANES heretofore used in our Foundry, we desire to dispose of the latter without delay, and will therefore accept very low prices. These SWING CRANES were designed and constructed by ourselves for our own use. They have had good care; are in good condition, and were of the following capacities when new:

- One 50 tons, operated by Steam Engine at base of frame.
- One 50 tons, operated by hand.
- Two 25 tons, operated by hand.
- Three 10 tons, operated by hand.

Full particulars, with prices will be given upon application.

WM. SELLERS & CO., Incorporated,
PHILADELPHIA, PA.



JOHN E. RANDLE & CO.
MEMPHIS, TENN.

Founders and Machinists

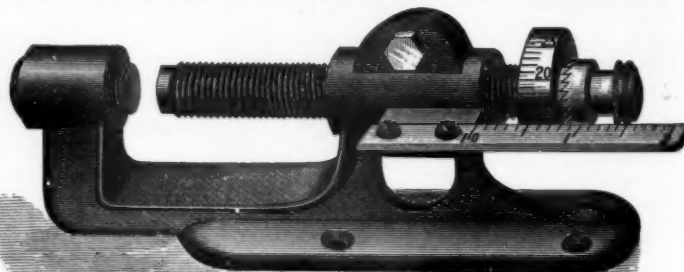
MANUFACTURERS OF
AJAX STEAM-POWER COTTON PRESS.
Brooks & Albertson Horse-Power Presses.

DEALERS IN
ATLAS ENGINES AND BOILERS.
Mill and Plantation Machinery of every description.
Send for catalogue. Correspondence solicited.

MONTGOMERY & CO.

Importers of
Stubs' Files, Tools and Steel, Smith's Music Wire, Grobet Files,

Church's Improved
BENCH



MICROMETER

CHESTERMAN'S TAPES, VAUTIER TOOLS,

Machinists', Silversmiths', Jewelers', Die Sinkers' and Engravers' SUPPLIES.
GEO. W. MONTGOMERY,
GEO. W. CHURCH.

105 FULTON STREET, NEW YORK.

Build and Repair Your Machinery

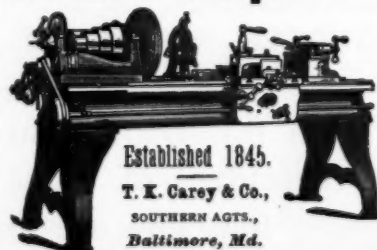
BY USING

Engine Lathes, Planers,
Chucking Lathes, Hand Lathes,

—AND—
MACHINE TOOLS GENERALLY

MANUFACTURED BY
LATHE & MORSETOOL CO.

Worcester, Mass., U. S. A.



Established 1845.

T. K. Carey & Co.,
SOUTHERN AGTS.,
Baltimore, Md.

Buy "THE NEW SOUTH."

HOWARD & BULLOUGH'S

OPENERS, LAPPERS, REVOLVING FLAT CARDS, ELECTRIC STOP MOTION DRAWING FRAMES, SLUBBING, INTERMEDIATE.

ROVING AND FINE JACKS, (NEW PATTERNS 1886) ALL MADE BY TOOL WORK; EVERY PART EITHER

TURNED, MILLED OR PLANED, AND CONTAINING MANY PATENTED AND VALUABLE

IMPROVEMENTS. WARPERS, COPPER CYLINDER SLASHERS, (New Models.)

SOLE IMPORTERS,
RILEY & GRAY, - - BOSTON, MASS.

CARD CLOTHING, WOOLEN AND WORSTED MACHINERY, Etc., Etc.

The Whitin Machine Works

J. LASSELL, President and Treasurer

G. E. TAYLOR, Agent.

H. ELLIS, Superintendent.

MANUFACTURERS OF

COTTON MACHINERY

Openers, Lappers, Cards, Railway Heads, Drawing, Ring Spinning,

SPOOLERS, WET and DRY TWISTERS, REELS,

—WARPERS, DRESSERS, LOOMS, &c.,—

Whitinsville, Worcester County, MASS.

Queen City Printing Ink Co.

CINCINNATI, OHIO.

WITH WHICH THIS PAPER IS PRINTED.
IS MADE BY THE
THE INK QUEEN CITY PRINTING INK CO.
CINCINNATI, O.

MANUFACTURERS OF ALL DESCRIPTIONS OF

INKS!

Varnishes and Sizes

FOR PRINTERS' USE.

New York Office, . . . 194 William Street.

Philadelphia Office, . . 434 Walnut Street.

SAVE FUEL.

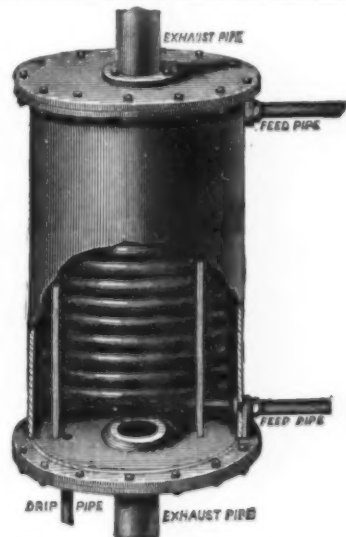
Are you putting cold water into your boiler?

You can heat it boiling hot with the exhaust steam out of your engine.

You would save TWENTY-FIVE PER CENT. of the fuel required to do the same work without a

Feed Water Heater.

Send for our catalogue on this subject.



THE D. A. Tompkins Co. Charlotte, N. C.

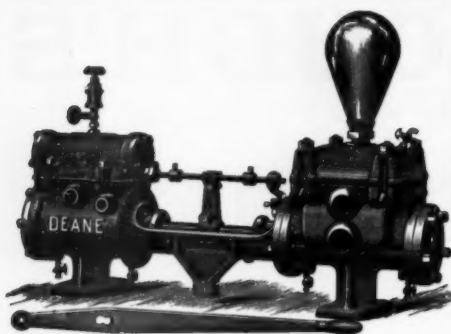
SHULTZ BELTING
MANUFACTURERS OF

IT BELTS THE EARTH AND MAKES THE MOON SPIN LIKE A TOP.

OUR BELTING is tanned on the surfaces only; the INTERIOR is RAW HIDE.

Send for Our Valuable Book for Engineers and Belt Users. Free. Agents in all Cities. Send for Trial Belt.

Address SHULTZ BELTING CO., St. Louis, Mo.



THE DEANE STEAM PUMP CO.

HOLYOKE, MASS.

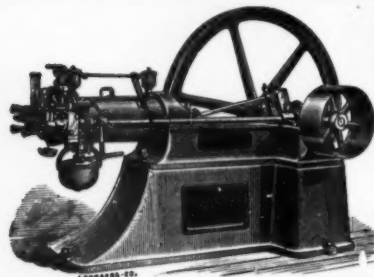
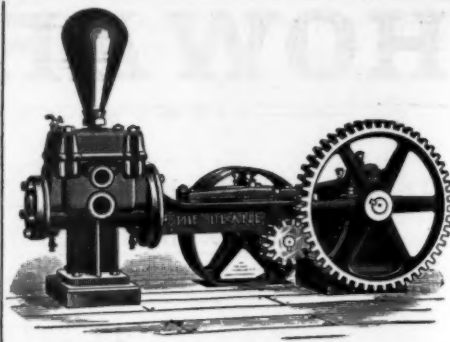
MANUFACTURERS OF

Steam and Power Pumping Machinery,

FOR ALL PURPOSES.

MORTON, REED & CO., Agents, BALTIMORE, MD.

Send for New Illustrated Catalogue, No. 22.



Over 18,000 in Use.

Otto Gas Engine

30 to 70 per ct. less Gas consumption than ANY OTHER ENGINE.

Working Without Boiler, Steam, Coal, Ashes or Attendance.

Started instantly by a Match, it gives full power immediately. When stopped, all expense ceases.

Guaranteed to Consume 25 to 75 Per Cent. less Gas than any other Gas Engine Doing the Same Work.

No explosions, no fires nor cinders, no gauges, no pumps, no engineer or other attendant while running. Recommended by insurance companies.

UNSURPASSED IN EVERY RESPECT for hoisting in warehouses, printing, ventilating, running small shops, &c. Sizes: 1 to 25-Horse power.

Branch Office, 130 Washington St., Chicago.

OTTO GAS ENGINE WORKS, Schleicher, Schumm & Co.

33d & WALNUT STS., PHILADELPHIA.

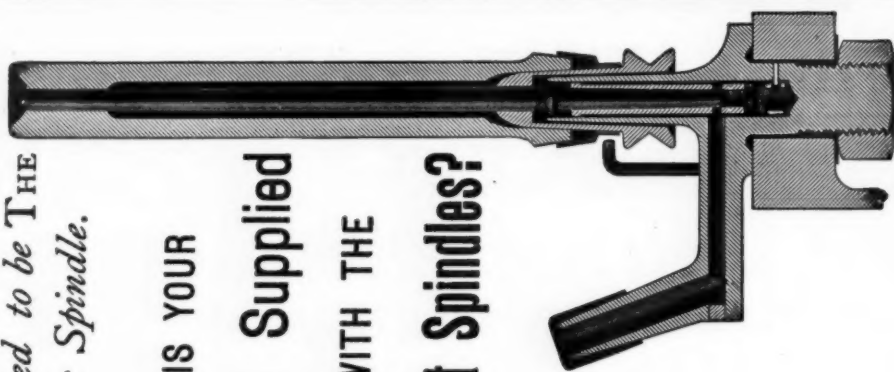
Since the Invention of the Sawyer Spindle, the most Popular Spindle has proved to be THE BEST Spindle.

IS YOUR

Mill Supplied

WITH THE

Best Spindles?



No. 49 RABBETH.

—THE—

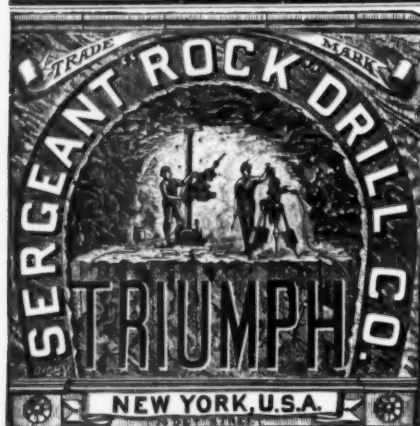
NUMBER 49 RABBETH SPINDLE

Is undoubtedly the most economical and Satisfactory Spindle in the market for all ordinary numbers of yarns

IF YOU HAVE NOT SEEN IT RUNNING, send for a sample.

GEO. DRAPER & SONS,
HOPEDALE, MASS.

Telegraph Address and Railroad Station,
MILFORD, MASS.



The 'SERGEANT' ROCK DRILL

Is More Simple in Construction, More Effective in Operation, and

REQUIRES LESS REPAIR

THAN THE BEST-KNOWN ROCK DRILLS IN THE MARKET.

We are Prepared to Prove the Above Statement.

AGENTS FOR THE NORWALK AIR COMPRESSOR.

Correspondence Solicited and Estimates Furnished for all Kinds of MACHINERY Required in MINING, QUARRYING or CONTRACT WORK

ADDRESS,

Sergeant Drill Co., 16 Dey St., New York.



YORK IMPROVED

Turbine Water Wheels.

Automatic Eng's.
Yacht Engines.
Factory Engines.

—Flour Mill, Dredging and Saw Mill Machinery.—

Shafting, Pulleys, Hangers, Couplings,

—BOXES AND CEARING.—

Engines and Boilers

OF ALL KINDS AND FOR EVERY DUTY.

Send for Catalogue. **MACHINERY** OF EVERY DESCRIPTION.

YORK MFG. CO.
YORK, PA.

ALEXANDER BROWN & SONS, { ESTABLISHED 1811 } BALTIMORE.

Transact a General Foreign and Domestic Banking Business.

Buy and sell Bills of Exchange on Great Britain, Ireland, and other foreign points. Issue Commercial and Travelers' Credits in Sterling, Francs or Dollars, available in any part of the world. Make Telegraphic Transfers of Money between this and other countries. Make Collec-

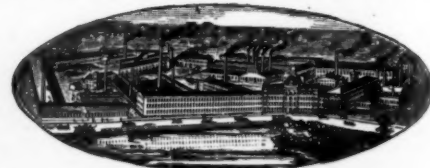
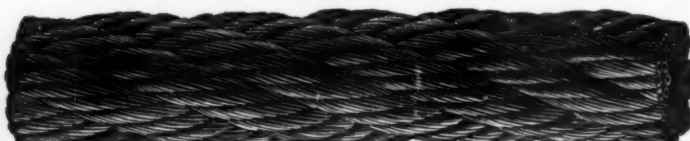
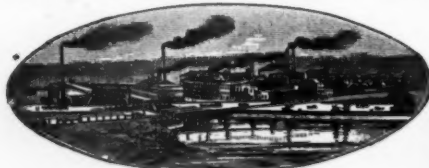
BROWN BROTHERS & CO., New York, Philadelphia and Boston.

tions of Drafts. Railroad, Municipal and other loans negotiated, and advances made on Cotton, Grain, Tobacco and other approved securities. Interest allowed on Deposits of Banks, Bankers, corporations and individuals. Members of Baltimore Stock Exchange. Buy and sell Stocks and Bonds in this and other cities. Private wire to Philadelphia and New York.

BROWN, SHIPLEY & CO., London and Liverpool.

Washburn & Moen Mnf. Co., Worcester, Mass.

MANUFACTURERS OF



Iron, Steel and Copper Wire, Wire Rope, Barbed Wire.

NEW YORK WAREHOUSE, 16 Cliff Street.

CHICAGO WAREHOUSE, 107 Lake Street.

Manufacturers' Record.

PUBLISHED EVERY SATURDAY BY THE
MANUFACTURERS' RECORD CO.

J. W. BIGSBY, *Pres.*
R. H. EDMONDS, *Treas.*
WM. H. EDMONDS, *Secy. & Manager.*

R. H. EDMONDS, EDITOR.

—OFFICE—
COR. EXCHANGE PLACE AND COMMERCE STREET,
BALTIMORE.

NEW YORK OFFICE:
Telephone Building, 18 Courtlandt St.

SUBSCRIPTION \$3.00 A YEAR.

BALTIMORE, JULY 2, 1887.

IN this issue will be found our semi-annual review of the industrial progress of the South. The statistics which we give have been compiled with the utmost care, and neither money nor work have been spared in our efforts to make them absolutely reliable. They show the magnitude of Southern development, and at the same time demonstrate its soundness and stability.

JUNE is the end of the school year in nearly every part of the country. Colleges, academies, high schools and all lesser institutions have finished their work and their long vacations begin. Our exchanges teem with reports of their closing exercises. In looking over many of the Southern journals we have been greatly gratified, but not surprised to observe that the spirit of the age is largely manifest in the themes selected by the essayists and orators of the graduating classes. Classical subjects and historical characters no longer hold the first place in the minds of the intelligent youth who are just stepping across the threshold and are about to enter upon the hard work of manhood. When ardent young men, looking hopefully and bravely out upon the broad world in which they are to begin their careers, bid good bye to their fellows, after speaking to them about "the new civilization or the civilization of the New South" and kindred themes, there can be no question as to their hopes and purposes. They are imbued with the spirit of the activities that surround them and are eager to participate in them. They appreciate, in some degree at least, the momentous changes of this era and see that the prizes of life are open to universal competition, that they are not limited to the learned professions, but that all useful occupations and callings are honorable, and that success in any of them is ennobling. Young men now a days who finish their school studies and go to the farm, the machine shop, the foundry and the cotton mill to learn all the details of the business, will a few years hence, be more independent and advance more rapidly toward the achievement of their ambitions, than those who study law or medicine, or who obtain

clerkships in mercantile or government offices. There are young Southern men of good education cleaning castings in some of the largest machine shops in this country, not because they could get no other work, but because they have learned the wisdom of knowing practically every detail of their chosen business, from the bottom to the top. The men who will twenty years hence be foremost in all Southern industries are graduating these bright June days from their academies and colleges. Entering upon life with high hopes and earnest purposes, inspired by the wonderful development that is the marvel of the age, they will be strong and persevering in acquiring that thorough knowledge of their callings that will ensure their ultimate success. The MANUFACTURERS' RECORD bids all such a cordial God speed.

The Reality of Southern Development.

There are some features of Southern industrial progress that are very significant. Among these may be mentioned: 1st, the wide diversity of new enterprises; 2d, the territorial scope of development, embracing the whole South; 3d, the large use of co-operative capital; 4th, the multiplicity of small individual investments. No one can have kept up with the unbroken current of industrial report in the MANUFACTURERS' RECORD, and be blind to the fact that the South is passing through an era of practical and profitable expansion, and one of the most gratifying elements of her condition is that Southern capital very largely enters into the situation. The South has made, and is making and investing, money of her own, while the sluice of Northern capital thus finds animated and honorable rivalry upon this great ground of pecuniary investment. Southern resources have never been doubted, though not fully understood. Now that they are beginning to be understood, they will draw, as they are drawing, capital and labor like a powerful magnet. The Southern people are alive to their own advantages; the Northern people are coming rapidly to the same knowledge. The concentration of national cupidity and national enterprise in this imperial section must bring a royal harvest. When we can point to such discriminating, full-handed and unequivocal recognition of Southern affluence of resource, as is being given by that distinguished Northern statesman, the Hon. William D. Kelley, of Pennsylvania, in the MANUFACTURERS' RECORD, there can be no further room either to question or to distrust. It is manifestly incorrect to speak of the condition as a "boom." It is a matter of fact, business, outcome, natural and of every appearance of steadiness. Diversified resources, developed by conservative capital in diversified industries, by judicious enterprise, give the amplest indication of permanence and success. The South is simply rising to her manifest destiny of advancement. The process is logical, and the result must be complete. Without exaggeration we can heartily say that the present Southern development is a healthy and timely reality, and the MANUFACTURERS' RECORD, in critical soberness, is willing to thus far essay the role of practical prophesy.

Who Can Foretell?

In the year 1791 Liverpool received from the various cotton-producing countries of the world 68,404 bags of cotton, but of these but 64 went from the United States. In 1806, only 15 years later, the same city received 173,074 bags, of which 100,142 went from this country. As late as 1796 considerable quantities of cotton were imported from the West Indies for domestic purposes in exchange for our produce, although there had been for several years an increasing exportation from Charleston, Savannah and other ports to London. In the Weekly Register, once published by H. Niles, we find in the issue of May 2, 1812, an interesting statistical statement of the English and American cotton industry of that period, accompanied by enthusiastic editorial comments, from which we make the following extract: "The increased import and manufacture of cotton in the British dominions within the last 30 years is truly astonishing, and so general are the fabrications of it at this time applied to almost every domestic purpose, that we wonder what was substituted for it a short time ago. The culture of cotton in the United States is as well calculated to excite our surprise." (It is stated elsewhere in the same article that it was nearly 80,000,000 pounds, or about 178,000 bales.) "Thirty years since it was planted rather as a matter of curiosity than anything else, or to supply a want strictly domestic, in affording to the good housewife a material by which to amuse her long winter evenings in knitting a few pairs of stockings! The late increase of its manufacture with us is co-extensive with the increase of its cultivation. As if by magic 76 mills for spinning it have sprung up in the neighborhood of Providence, R. I., giving motion to more than 80,000 spindles, and extensive establishments of the kind are to be found in most of the States, several of which are on a grand and liberal scale. From the progress thus made it is easy to foresee that we shall speedily be independent of the world for all the useful and important manufactures of this great staple of our country, which is daily applied to some new and interesting purpose." Three quarters of a century have passed since the foregoing words were penned. Instead of 80,000,000 pounds of lint cotton, this country produces annually 2,700,000,000 pounds, while manufacturing has more than kept pace with the production of the staple in this country, and made it not only "independent of the world," but a competitor with other cotton-manufacturing countries in the world's markets, while certain classes of our fabrics from it have gained such an excellent reputation in the East Indies that foreigners can only dispose of their inferior goods, nominally of the same grade, by imitating American labels and trade marks.

As has advanced the cotton industry in the last 75 years, so have all other leading lines of industry in this country, but the most prodigious strides in all these lines have been made during the last third of that period, or since the enactment of the protective tariff of 1861. That act, standing as a barrier between American workingmen, capitalists and inventors, and European manufactories employing labor at pauper prices, has enabled this nation to attain the proud position of being the foremost industrial country of the world. Who can foretell the grandeur of our future, when, under the benign operation of our protective policy, every natural advantage we possess shall be utilized, and the whole of this great land shall resound with the blended harmonies arising from every industry known to civilization? It is because the MANUFACTURERS' RECORD has faith in the lessons of the past, and through them sees the way to such a future, that it persists in insisting upon adhering steadfastly to the time-tested American policy of protection. It is because British manufacturers and statesmen see it with equal clearness that they persist in their endeavors to beguile the people of the United States into an abandonment of the protective idea. It is not simply that they may gain the markets of this country, valuable as the prize would be, that they spend their labor and their gold, but they are feeling more keenly every year the effect of American competition in all foreign markets they once monopolized, and they tremble for their long-held supremacy. Holding to protection, this country, lying between Europe and Asia, looking from its Pacific ports to that Orient which has in all ages been the prize contended for by commercial nations, can supply the demands of the millions of the Indies, and become the greatest in commerce, in manufactures and in agriculture of all the nations of the earth.

IN our advertising columns will be found a notice from the mayor of West Point, Va., announcing the exemption from taxation of all new manufacturing enterprises located there. West Point is delightfully situated on a magnificent river, affording a bountiful supply of oysters and fish for canning purposes, and is surrounded by a splendid trucking country, which ships immense quantities of fruits and vegetables to Northern markets. For canning factories, where oysters can be put up in winter and fruits and vegetables in summer, this town affords a most excellent location. It is an important shipping point, and handles a very large amount of cotton for foreign export. A contract has lately been closed for the erection of a \$30,000 hotel, work on which has already been commenced, and we are informed that the money has been secured for an electric light plant, which is to be in operation in 60 days.

A HALF YEAR'S PROGRESS.

The Great Industrial Activity Throughout the South.

1,855 New Enterprises for the First Six Months of the Year, Against 812 for the Same Time Last Year.

A Wide Diversity of New Industries.

The first six months of 1887 witnessed the most remarkable industrial activity in the South that the world has probably ever seen. From one end to the other of that section the people have awakened to the vast possibilities of the future of this land on which nature has bestowed her blessings with such a lavish hand. When we examine the actual industrial progress of the South during this period, as measured by the list of enterprises established or organized in that time, we cannot but be amazed at the stupendous work that has been accomplished. Nothing, we believe, in history will afford a parallel. Moreover, this growth is based on the most substantial foundation. It shows a diversity of industries that is extremely gratifying. While the iron and kindred interests continue to attract the largest share of attention, they are not, as some have supposed, being developed at the expense of other industries. The construction of furnaces is proceeding rapidly, and the output of Southern iron in 1888 will be very large. But the South, not content to make pig iron for some other section to make up into finished goods, is building foundries, machine shops, iron pipe works, agricultural implement factories, iron bridge works, rolling mills and similar enterprises, with a rapidity that assures a home market for a very large proportion, if not for the entire increase in the production of pig iron.

The great cotton manufacturing industry that formerly received far more attention in the South than the iron interests is again coming to the front, and there is more activity in the building of new mills and the enlargement of old ones than has been seen for some years. Cotton mills are now earning excellent profits and the demand for their products is so good that it has encouraged the construction of many new mills. In South Carolina especially mill building is becoming brisk; two of the largest mill companies in the State have decided to double their capacity by the erection of additional mills, while at Greenville negotiations have about been closed for the erection of a \$500,000 mill. Texas, which possesses so many advantages for cotton manufacturing, is giving more attention to this industry, and many companies have been chartered there to build large mills. All indications point to a period of remarkable activity in cotton mill building during the balance of the year.

In no way is the wide diversity of the South's industrial growth more vividly shown than by a comparison of the number and kind of new enterprises organized or established during the first six months of 1887 as against the same time 1886. Comparing these enterprises for the two periods we have:

| | First six months of 1887. | Number. | First six months of 1886. | Number. |
|--|---------------------------|---------|---------------------------|---------|
| Iron furnace companies..... | 30 | 7 | 11 | 4 |
| Machine shops and foundries..... | 53 | 40 | 11 | 7 |
| Agricultural implement factories..... | 11 | 7 | 68 | 48 |
| Flour mills..... | 68 | 48 | 44 | 8 |
| Cotton mills..... | 44 | 8 | 33 | 18 |
| Furniture factories..... | 33 | 18 | 24 | 15 |
| Gas works..... | 24 | 15 | 46 | 15 |
| Water works..... | 46 | 15 | 36 | 11 |
| Carriage and wagon factories..... | 36 | 11 | 33 | 17 |
| Electric light companies..... | 33 | 17 | 323 | 70 |
| Mining enterprises..... | 323 | 70 | 361 | 248 |
| Lumber mills..... | 361 | 248 | 45 | 30 |
| Ice factories..... | 45 | 30 | 49 | 8 |
| Canning factories..... | 49 | 8 | 2 | 3 |
| Stove foundries..... | 2 | 3 | 116 | 36 |
| Brick works..... | 116 | 36 | 47 | 8 |
| Miscellaneous iron works, rolling mills, pipe works..... | 47 | 8 | 26 | 7 |
| Cotton compresses..... | 26 | 7 | 13 | 2 |
| Cotton seed oil mills..... | 13 | 2 | 30 | 16 |
| Natural gas companies..... | 30 | 16 | | |
| Miscellaneous enterprises not included in foregoing..... | 475 | 198 | | |
| Total..... | 1,855 | 812 | | |

In every line of manufacture given in the foregoing except one there has been a great increase. While furnaces have increased from 7 to 20, machine shops and foundries have increased from 40 to 53, and miscellaneous iron works, including rolling mills, pipe works, &c., from 8 to 47. During the first six months of 1887, 44 cotton mills were reported against 8 for the same time 1886, while during the same period furniture factories increased from 18 to 33; gas works 15 to 24; water works 15 to 46; carriage and wagon factories 11 to 26; electric light companies 17 to 33; mining enterprises 70 to 323; wood-working establishments 248 to 361; ice factories 30 to 55; canning factories 8 to 49; brick works 36 to 116; cotton compresses 7 to 26; cotton-seed oil mills 2 to 13, and of miscellaneous enterprises not included under any of these heads 198 to 475. Surely a better illustration of the diversity of the development of the South's industries could not be given. The vast extent of this development is seen in the number of new enterprises, which aggregate for six months 1,855, against 812 for the same time last year, and the enormous amount of capital invested.

Basing our calculations upon returns received directly by the MANUFACTURERS' RECORD, amply authenticated and verified, and in the case of incorporated companies, compared with the official reports of the State officers, we find that during the first 6 months of 1887 the amount of capital, including capital stock of incorporated companies, represented by the new manufacturing and mining enterprises organized or chartered at the South, and in the enlargement of old plants and rebuilding of mills that were destroyed by fire, not including the land companies organized to develop manufactures aggregates about \$161,117,000. It is of course true that with some of these companies the actual cash investment is not so large as the amount of their capital stock; but there are hundreds of small manufacturing enterprises, portable saw mills, small grist mills, gineries and similar small industries, costing from a few hundred to a thousand dollars, that are not included in this list. The aggregate cost of these would be very considerable and partly, though not wholly, offset the too great capitalization of some incorporated companies. Moreover, many of the large land companies, which are not included in this list, will really invest quite heavily in manufactures by aiding others to establish new industries. In addition to these, every manufacturing enterprise is constantly adding here and there a new piece of machinery, which in the aggregate is very great; but we take no account of that, only including cases where a mill is greatly enlarged, remodeled, or other extensive improvements made.

Summing up the amount of capital and capital stock represented by our list of new enterprises, the enlargement of old plants and the rebuilding of mills after being burned, for the first six months of 1887, and comparing it with the corresponding time of 1886, we have:

| | First six months of 1887. | 1886. |
|---------------------|---------------------------|--------------|
| Alabama..... | \$ 32,681,000 | \$ 4,808,500 |
| Arkansas..... | 22,212,000 | 11,438,000 |
| Florida..... | 865,000 | 981,000 |
| Georgia..... | 9,188,000 | 1,399,000 |
| Kentucky..... | 21,710,000 | 17,220,700 |
| Louisiana..... | 3,972,000 | 1,202,000 |
| Maryland..... | 11,295,000 | 5,139,000 |
| Mississippi..... | 2,233,000 | 457,000 |
| North Carolina..... | 3,212,000 | 1,485,200 |
| South Carolina..... | 1,606,000 | 538,000 |
| Tennessee..... | 26,255,000 | 5,297,000 |
| Texas..... | 10,604,000 | 2,980,000 |
| Virginia..... | 10,389,000 | 5,553,000 |
| West Virginia..... | 4,961,000 | 5,123,800 |
| Total..... | \$161,117,000 | \$63,618,200 |

As compared with the first six months of 1886, the list of new enterprises for the corresponding time of this year, and the aggregate of capital and capital stock show a most astonishing increase. The capital (and capital stock) for the first six months of 1887 is more than double the amount for the same time last year. For the

last six months 1,885 new enterprises were reported, while one year ago our list for the first half of 1886 showed only 812 new enterprises, the total this year in number as well as in investment being largely more than double for the same time 1886.

In the following list we give the name, location and character of business of the new enterprises organized during the three months ended June 30, 1887, and existing establishments rebuilt (after being burned) or enlarged, having already given the list for the first three months of the year in our issue of April 2:

ALABAMA.

| LOCATION. | NAME. | BUSINESS. |
|-----------------------|---|--------------------------|
| Allsboro..... | Samuel Thompson..... | Ore Mining. |
| Alpine..... | C. D. Morrison..... | Saw Mill. |
| Alpine..... | R. E. Cook & Sawyer..... | Saw Mill. |
| Alpine..... | L. Comer..... | Lath Mill. |
| Anniston..... | South Fire-Brick & Clay Co..... | Fire-Brick Works. |
| Anniston..... | J. M. Anderson..... | Mattress Factory. |
| Anniston..... | Anniston & C. H. R. R. Co..... | Machine Shops. |
| Anniston..... | Cahaba Coal Mining Co..... | Mineral, Coke Ovens, &c. |
| Anniston, near..... | G. H. Bryan & Bro..... | Brick Yard. |
| Anniston, near..... | G. Leak..... | Brick Yard. |
| Anniston, near..... | Stevens..... | Brick Yard. |
| Anniston, near..... | Pacific Brick Works..... | Pressed Brick Works. |
| Ashville..... | W. Riley..... | Grist Mill. |
| Ashby..... | H. H. Carr..... | Fire-Brick Works. |
| Atalla..... | Atalla Iron & Steel Co..... | Furnaces, &c. |
| Atalla..... | Hughes & Jackson..... | Brick Works. |
| Atalla..... | Nalls Bros..... | Brick Works. |
| Athens..... | W. H. Sykes..... | Brick Works. |
| Athens..... | C. N. Crenshaw..... | Brick Works. |
| Bellefonte..... | Martin & Vaughan..... | Saw Mill. |
| Bessemer..... | Bessemer Fdy. & Mach. Wks..... | Fdy. and Machine Shops. |
| Bessemer..... | DeBardeleben Coal & Iron Co..... | Two Furnaces. |
| Bessemer..... | Bessemer Land & Imp. Co..... | Water Works. |
| Bessemer..... | Bessemer Ter. Cot. Lum. Co..... | Terra Cotta Works. |
| Bessemer..... | Bessemer Print. & Pub. Co..... | Printing, &c. |
| Bessemer..... | Bessemer Brick & Lum. Co..... | Brick Works. |
| Bessemer..... | Bessemer Brick Co..... | Brick Works. |
| Birmingham..... | Birmingham St. Car Fac. Co..... | Car Factory. |
| Birmingham..... | Clifton-Birmingham Brick Co..... | Brick Works. |
| Birmingham..... | P. Schillinger..... | Hoe Factory. |
| Birmingham..... | Birm. Mark Pot & Mfg. Co..... | Manufacturing. |
| Birmingham..... | Morrow Mining Co..... | Mining. |
| Birmingham..... | Elyton Land Co..... | Planing Mill. |
| Birmingham..... | Smith Sons Gin & Mach. Co..... | Enlarged Factory. |
| Birmingham..... | E. Birmingham & Sad Iron Wks..... | Sad Iron Works. |
| Birmingham..... | Alabama Gold Mining Co..... | Mining, &c. |
| Birmingham..... | Birmingham Water Works..... | New Reservoir. |
| Birmingham..... | Birm. Nat. Gas & Fuel Co..... | Gas Works. |
| Birmingham..... | J. J. Howe & E. D. Bacon..... | Shirt Factory. |
| Birmingham..... | E. Birmingham Iron & Steel Co..... | Iron, &c. |
| Birmingham..... | Birmingham Hollowware Co..... | Hollow-Ware Factory. |
| Birmingham..... | Enamelling Co..... | Enamelling. |
| Birmingham..... | Pleasant Valley Land & Mfg. Co..... | Manufacturing, &c. |
| Birmingham..... | R. J. Miles & Co..... | Planing Mill. |
| Birmingham..... | Avondale Ice Factory..... | Ice Factory. |
| Birmingham..... | Jackson Coal & Coke Co..... | Mining. |
| Birmingham..... | Birmingham Glass Works..... | Glass Works. |
| Birmingham..... | H. W. Sessions..... | Creamery. |
| Birmingham..... | Birmingham Safe & Lock Co..... | Fire-Proof Safe Factory. |
| Birmingham..... | Automatic Water Gas Co..... | Manufacturing. |
| Birmingham..... | Jefferson Brick Co..... | Brick Works. |
| Birmingham..... | Walker County Coal Oil Co..... | Oil. |
| Birmingham..... | Jefferson County Ter. Cot. Terra Cotta Factory..... | Terra Cotta Factory. |
| Birmingham..... | Wood Co..... | Quarrying. |
| Birmingham..... | Alabama Mineral Bureau..... | Mining, &c. |
| Birmingham..... | Birm. Clothing Mfg. Co..... | Clothing Factory. |
| Birmingham..... | Birm. Rol. Mill & Mfg. Co..... | Rolling Mill. |
| Birmingham..... | Silk Cult. & Indus. Acad'y..... | Silk. |
| Birmingham..... | Coaldale Brick & Min. Co..... | Mining and Manufactur'g. |
| Birmingham..... | Birmingham Flooring Mill Co..... | Flooring Mill. |
| Birmingham..... | Terry Brick Works Co..... | Brick Works. |
| Birmingham..... | Alabama Ice & Cold Stor. Co..... | Ice Factory. |
| Birmingham..... | N. O. Birm. & Natasulga..... | Quarrying. |
| Birmingham..... | Granite Co..... | Quarrying. |
| Birmingham..... | Southern Stamping Co..... | Tinware Factory. |
| Birmingham..... | B. E. Grace..... | Mining. |
| Birmingham..... | Friel & Moore..... | Mining. |
| Birmingham..... | Birmingham Plow Works..... | Plow Factory. |
| Birmingham..... | Caldwell Printing Works..... | Electric Light. |
| Birmingham..... | Miller, Caldwell & Flowers..... | Saw and Planing Mill. |
| Bynum..... | Barnwell & Huger..... | Saw Mill. |
| Collinsville, nr..... | Morgan..... | Furniture Factory. |
| Collinsville..... | Pryon & Johns..... | Brick Works. |
| Cross Plains..... | E. T. Henderson..... | Sash and blind factory. |
| Danville..... | Danville Asphalt, Oil & Asphalt and Oil. | Asphalt and Oil. |
| Decatur..... | Beardham Planing Mill..... | Sash and Door Factory. |
| Decatur..... | Decatur Cotton Gin Co..... | Gin and Grist Mill. |
| Decatur..... | Min. Paint & Gran. Roof Co..... | Roofing Works. |
| Decatur..... | Dec' Wire Fence Mach. Co..... | Fence Machinery. |
| Decatur..... | Inman & Co..... | Water Works. |
| Decatur..... | Decatur Mineral Water & Bottling Co..... | Bottling Works. |
| Decatur..... | Decatur Artificial Stone Co..... | Artificial Stone. |
| Flint..... | Williams & Kennedy..... | Brick Works. |
| Florence..... | W. B. Wood Furnace Co..... | Furnace. |
| Florence..... | Leftwich & Sample..... | Brick Works. |
| Florence..... | Flor. Land, Min. & Mfg. Co..... | Brick Works. |
| Florence..... | Flor. Com. Pack. & Fer. Co..... | Cotton Compress. |
| Florence..... | James C. Anderson..... | Candy Factory. |
| Florence..... | Nichols..... | Planing Mill. |
| Florence..... | Eli Rolling Mill Co..... | Rolling Mill. |
| Florence..... | B. F. Conner..... | Planing Mill. |
| Gadsden..... | Gadsden Metallic Paint Co..... | Paint Mill. |
| Greenville..... | Greenville Lum. & Mfg. Co..... | Saw Mill. |
| Guntersville..... | John W. Perkins..... | Iron Ore Mining. |
| Guntersville..... | J. P. Robinson..... | Limestone Quarrying. |
| Guntersville..... | S. & H. Holt..... | Brick Works. |
| Hartselle..... | Morgan Co. Asp't & Oil Co..... | Asphalt and Oil. |
| Huntsville..... | Huntsville Elec. Light Co..... | Electric Light Plant. |
| Isbell..... | Allen & Robinson..... | Shingle Mill. |
| Isbell..... | Ogden Street..... | Ore Mining. |
| Isbell..... | Gibson & Bell..... | Saw Mill. |
| Isbell..... | T. L. Fossick & Co..... | Ore Mining. |
| Kennedy..... | Leeds Co..... | Saw and Grist Mill. |
| Leeds..... | Leeds Co..... | Brick Works. |
| Leeds..... | Leeds Lumber Co..... | Planing Mill. |
| Lime Rock..... | Alabama Black Band Coal & Iron & R. Co..... | Coal Mining. |
| Lincoln..... | Williams & Haley..... | Saw Mill. |
| Live Oak..... | T. F. Thomasson & Co..... | Saw Mill. |
| Mobile..... | Gulf Coal & Coke Co..... | Increased Capital. |
| Mobile..... | Prog. Elec. Lt. & Motor Co..... | Electric Light Works. |
| Montgomery..... | Sheffield & Birm. Coal Co..... | Coal Mining. |
| Montgomery..... | Adams Cotton Mills..... | Enlarged Mill. |
| Montgomery..... | Jos. L. Friedman..... | Vinegar Works. |
| Montgomery..... | Southern Cotton Oil Co..... | Cotton-Seed Oil Mill. |
| Nectar..... | J. L. Haire..... | Gin. |
| Newcastle..... | Newcastle Coal & Coke Co..... | Coke Ovens. |
| Northport..... | David Higdon..... | Saw Mill. |
| Natasulga..... | Natasulga Granite Co..... | Cotton Mill, &c. |
| Opelika..... | M. F. Trawick..... | Fertilizer Factory. |
| Oxana..... | C. C. Huckabee..... | Cotton-Seed Oil Mill. |

| LOCATION. | NAME. | BUSINESS. |
|--------------------------|---|----------------------------------|
| Oxford..... | W. C. Stewart & Davidson. | Planing Mill. |
| Oxford..... | Wm. H. Wood..... | Ochre Mining. |
| Perdido..... | Baldwin Lumber Co..... | Saw and Planing Mill. |
| Powderly..... | Powderly St. Brick Mfg. Co. | Brick Yard. |
| Powderly..... | Powderly Cigar Co..... | Cigar Factory. |
| Prattville..... | Prattville Mfg. Co..... | Cotton Mill. |
| Riverside..... | Riverside Land & Lum. Co. | Planing Mill. |
| Russellville..... | Robinson & Allen..... | Shingle Mill. |
| Selma..... | Armour & Co..... | Pack. and Refrig. House. |
| Selma..... | Chas. A. Wieland..... | Soap Factory. |
| Selma..... | Selma Cigar Mfg. Co..... | Cigar factory. |
| Selma..... | G. M. Adams..... | Shirt Factory. |
| Selma..... | Selma Rolling Mill & Chain Works Co. | Rolling Mill and Chain Works. |
| Selma..... | F. D. Timley..... | Fertilizer Factory. |
| Sheffield..... | Eureka Brick & Lumber Co. | Enlarged Works. |
| Sheffield..... | Hale..... | Brick Yard. |
| Sheffield..... | East Sheffield Mfg. Co..... | Brick Works. |
| Shelby I. Wks..... | Shelby Iron Co..... | Remodeled Furnace. |
| Six Mile..... | Lewis McSpadden..... | Brick Yard. |
| Talladega..... | Golden & Nance..... | Machine Shop. |
| Talladega..... | Jacob Bros..... | Ice Factory. |
| Talladega..... | Talladega Ice Co..... | Ice Factory. |
| Talladega..... | Arthur Bingham & Co..... | Saw Mill. |
| Talladega..... | Brush Electric Light Co..... | Electric Light Plant. |
| Talladega..... | Talladega Gas & Water Co. | Gas Works. |
| Talladega..... | Geo. W. Chambers..... | Brick Yard. |
| Trinity..... | DeCATUR & Trinity Land, Improvem't & Mfg. Co. | Enlarged Mining, Coke Ovens, &c. |
| Trout Creek..... | St. Clair Coal Co..... | Enlarged Mining, Coke Ovens, &c. |
| Troy..... | Pike County Guano Co..... | Fertilizer Factory. |
| Troy..... | Tuscaloosa Tile & Brick Co. | Brick and Tile Works. |
| Tuscaloosa..... | Tusca. Comp. & W. House Co. | Cotton Compress. |
| Tuscaloosa..... | Tuscaloosa Brick & Tile Co. | Saw Mill. |
| Tuscaloosa..... | Edgefield Land & Imp. Co. | Fire-Brick Works. |
| Uniontown, nr. Bush..... | Waddell's Sta'n. Crow & Robinson | Stone Quarrying. |
| Wheeling..... | Woodward Iron Co..... | New Coal Mine & Coke Ovens. |
| Woodstock..... | Edwards Iron Co..... | Mining and Coke Ovens. |

ARKANSAS.

| | | |
|----------------------|--|--|
| Antimony City..... | Antimony City Mining Co. | Smelter. |
| Arkadelphia..... | Arkadelphia Lumber Co. | Planing Mill. |
| Arkansas City..... | Sweet & Tripp..... | Planing Mill. |
| Batesville..... | Demie & Co..... | Lime Works. |
| Beaumont..... | Exeter Mining Co..... | Mining. |
| Beaumont..... | C. F. French Mining Co..... | Mining. |
| Beaumont..... | Ryan Bros..... | Mining. |
| Beaumont..... | Kirkwood Mining Co..... | Mining. |
| Beaumont..... | Biglin & Jacobs..... | Mining. |
| Beaumont..... | Barnes & Ish..... | Mining. |
| Beaumont..... | Rogers & Fisher..... | Mining. |
| Beaumont..... | Bear Mountain Mining Co. | Stamp Mill. |
| Beaumont..... | Golden Wonder Mining Co. | Stamp Mill. |
| Beaumont..... | Excelsior Mining Co..... | Stamp Mill. |
| Benton..... | Excelsior Soap Stone Slab & Brick Mfg. Co. | Mining. |
| Camden..... | Camden Compress Co..... | Cotton Compress. |
| Clarksburg..... | J. E. Cravens and others..... | Mining, &c. |
| Crystal Springs..... | Texas Mining Co..... | Mining. |
| Curtis..... | L. L. Reeder..... | Saw Mill. |
| Dallas..... | S. P. Miller & Co..... | Mining. |
| Dallas..... | Worthington..... | Stamp Mill. |
| Dardanelle..... | Dardanelle Mining Co..... | Wagon Factory. |
| Dardanelle..... | Dry Run Lumber Co..... | Mining. |
| Dardanelle..... | Fort Smith Water Works..... | Improved Plant. |
| Dardanelle..... | Missouri Pacific R. R..... | Machine Shops. |
| Dardanelle..... | Plummer & Co..... | Fruit Evaporat'g Factory. |
| Dardanelle..... | J. R. Patterson & Co..... | Distillery. |
| Dardanelle..... | Golden City..... | Admiral Mining & Milling Co. |
| Dardanelle..... | Golden City..... | Admiral Land & Min. Co. |
| Dardanelle..... | Hackett City..... | Cotton Press. |
| Dardanelle..... | Hensley..... | Coal Mine. |
| Dardanelle..... | J. F. Smith..... | Brick Yard. |
| Dardanelle..... | Hot Springs..... | Cosmos Min'g & Smelt'g Co. |
| Dardanelle..... | Hot Springs..... | J. P. Mercer..... |
| Dardanelle..... | Hot Springs..... | Arkansas Min. & Smelt. Co. |
| Dardanelle..... | Hot Springs..... | Hot Springs Refrigerat'g Co. |
| Dardanelle..... | Hot Springs..... | Crescent Min. & Smelt'g Co. |
| Dardanelle..... | Hot Springs..... | S. W. Fowler..... |
| Dardanelle..... | Hot Springs..... | P. W. Masters and others..... |
| Dardanelle..... | Hot Springs..... | Garland Mining Co..... |
| Dardanelle..... | Hot Springs..... | St. Louis Cabalt Mining Co. |
| Dardanelle..... | Hot Springs..... | Main Mining Co..... |
| Dardanelle..... | Hot Springs..... | Hot Springs, nr. Taylor & Booker |
| Dardanelle..... | Hot Springs..... | Enterprise Min. & Smelt. Co. |
| Dardanelle..... | Hot Springs..... | Hartford Mining Co..... |
| Dardanelle..... | Hot Springs..... | Turner & Remington..... |
| Dardanelle..... | Hot Springs..... | Little Hornet Mining Co..... |
| Dardanelle..... | Hot Springs..... | Hydro Carbon Fixed Gas Co. |
| Dardanelle..... | Hot Springs..... | Whitmore & Summers..... |
| Dardanelle..... | Judsonia..... | Davies & Son..... |
| Dardanelle..... | Little Rock..... | Fred Hanger..... |
| Dardanelle..... | Little Rock..... | H. A. Bowman & Co..... |
| Dardanelle..... | Little Rock..... | Little Rock Automatic Re-frigerating Co. |
| Dardanelle..... | Little Rock..... | Wallis..... |
| Dardanelle..... | Little Rock..... | Price Lumber Co..... |
| Dardanelle..... | Little Rock..... | Arkansas Industrial Co. |
| Dardanelle..... | Little Rock..... | South Ouachita Mining Co. |
| Dardanelle..... | Little Rock..... | Roesch & Shutte & Co. |
| Dardanelle..... | Little Rock..... | D. R. Wing & Co..... |
| Dardanelle..... | Little Rock..... | R. W. Worthen and others..... |
| Dardanelle..... | Little Rock..... | L. Anderson..... |
| Dardanelle..... | Little Rock..... | Southern Cotton Oil Co. |
| Dardanelle..... | Little Rock..... | Louis Koers..... |
| Dardanelle..... | Little Rock..... | Elizah Ives..... |
| Dardanelle..... | Little Rock..... | Wiegand & O'Keefe & Co. |
| Dardanelle..... | Little Rock..... | Little Rock Compress Co. |
| Dardanelle..... | Little Rock..... | Little Rock Elec. Light Co. |
| Dardanelle..... | Madison..... | H. Bannister..... |
| Dardanelle..... | Magazine..... | Logan County Mining Co. |
| Dardanelle..... | Mammoth..... | Mammoth Spr'g Improve-ment & Water Power Co. |
| Dardanelle..... | Newport..... | Newport Tanning Co. |
| Dardanelle..... | Pettigrew Mills..... | J. A. C. Blackburn..... |
| Dardanelle..... | Pocahontas..... | Wagon Factory. |
| Dardanelle..... | Prescott..... | Prescott Lumber Co. |
| Dardanelle..... | Reyno..... | P. N. Goetz..... |
| Dardanelle..... | Russellville..... | Smith & Brown..... |
| Dardanelle..... | Van Buren..... | Van Buren Ice & Coal Co. |
| Dardanelle..... | Van Buren..... | Van Buren Planing Mills. |
| Dardanelle..... | Van Buren..... | Mayor & City Council..... |
| Dardanelle..... | Yellville..... | Stecher City Mining Co. |

FLORIDA.

| | | |
|--------------------|---------------------------------------|-------------------------|
| Anthony..... | J. Stranahan & D. A. Smith. | Quarrying. |
| Apalachicola..... | Apalachicola Oys'r & Fish Canning Co. | Canning Factory. |
| Arcadia..... | Sohanson & Isgreen..... | Lumber Mill. |
| Bellevue..... | E. Converse..... | Spoke & Handle Factory. |
| Belmont..... | Burlington & Wilson..... | Saw Mill. |
| Boca Grande..... | Robert Wilson..... | Shipyard. |
| Bonifacio..... | H. Barmelester..... | Fish Canning Factory. |
| Bonifay..... | Holmes..... | Mattress Factory. |
| Bonifay..... | Bronson..... | Lumber Mill. |
| Brooksville..... | T. E. Kirkley..... | Lime Works. |
| Campbell City..... | Silliman & Scarritt..... | Saw and Shingle Mill. |
| Campbell City..... | R. H. Seymour..... | Lumber Mill. |
| Carabelle..... | Wells & Mitchell..... | Fertilizer Factory. |
| Carabelle..... | Wells & Mitchell..... | Wood-working Factory. |
| Denver..... | G. H. Sullivan..... | Brick Yard. |
| Elzey..... | Geo. W. Moody..... | Lumber Mill. |
| Fernandina..... | Mayor and City Council..... | Water Works. |
| Fort Myers..... | Thos. Edison..... | Electric Light Works. |
| Fort Meade..... | J. W. Powell..... | Lumber Mill. |

| LOCATION. | NAME. | BUSINESS. |
|---------------------|--------------------------------------|-------------------------|
| Jacksonville..... | Stewart & Co..... | Palmetto Fibre Factory. |
| Jacksonville..... | Arctic Ice Co..... | Additional Machinery. |
| Key West..... | Key West Gas Co..... | Electric Light Works. |
| Kissimmee..... | Ocala Sugar Co..... | Sugar Mill. |
| Lake Butler..... | Davis..... | Saw Mill. |
| Lake Butler..... | Lake Butler Stoneware Co. | Pottery Works. |
| Lloyd..... | W. L. Bond..... | Enlarged Oil Mill. |
| Longwood..... | Mayer & Muddough..... | Wood-working Factory. |
| Mayport..... | A. McCallum..... | Lime Works. |
| Okahumpka..... | R. H. Ramsay..... | Bucket Factory. |
| Otter Creek..... | D. A. Boyd..... | Saw Mill. |
| Palatka..... | Pensacola Electric Light & Power Co. | Electric Light Works. |
| Pensacola..... | McDermott & Higgs..... | Cigar Factory. |
| Pine Island..... | John W. Gates..... | Broom Factory. |
| Rock Springs..... | Cooley & Turner..... | Starch Factory. |
| Sanford..... | Betts Fencing Co..... | Fence Factory. |
| Silver Springs..... | S. Bodie..... | Hosiery Factory. |
| Sorrento..... | Wm. Emerson..... | Saw Mill. |
| St. Lucie..... | Hillsborough River Br'k Co. | Brick and Tile Works. |
| Tampa..... | S. B. Knight..... | Saw Mill Machinery. |
| Wacassassa..... | Benjamin Eager..... | Lumber Mill. |

GEORGIA.

| | | |
|--------------------------------------|---|----------------------------------|
| Athens..... | Gunn & Murray..... | Brick Yard. |
| Athens..... | E. L. Lyndon..... | Planing Mill. |
| Athens..... | John R. Crawford..... | Sash and Door Factory. |
| Americus..... | Muckalee Mfg. Co..... | Saw Mill. |
| Americus..... | Americus Guano Co..... | Fertilizer Factory. |
| Americus..... | Americus Land & Lum. Co. | Lumber Mills, &c. |
| Atlanta..... | New South Woven Cord Furniture Co. | Furniture Factory. |
| Atlanta..... | Atlanta Gas Lt. & Econ. Co. | Gas Economizers. |
| Atlanta..... | Atlanta Excelsior Co. | Excelsior Factory. |
| Atlanta..... | Woodward Lumber Co. | Sash and Door Factory. |
| Atlanta..... | Georgia Excelsior Mfg. Co. | Excelsior Factory. |
| Atlanta..... | Boyd & Baxter..... | Furniture Factory. |
| Atlanta..... | Southern Cotton Oil Co. | Cotton-Seed Oil Mill. |
| Atlanta..... | Atlanta Ice Co..... | Ice Factory. |
| Atlanta..... | American Ry. Equip. Co. | Railroad Cars. |
| Atlanta..... | American Cotton Seed Oil & Fertilizer Co. | Cotton-Seed Oil and Fertilizers. |
| Atlanta..... | Wine of Life Co..... | Medicines. |
| Atlanta..... | Atlanta Lime & Cement Co. | Lime Works. |
| Atlanta..... | Empire State Electric Co. | Electrical Machinery. |
| Atlanta..... | Magnolia Starch Co. | Starch Factory. |
| Augusta..... | Atlanta Wagon & Timb. Co. | Wagon Factory. |
| Augusta..... | Georgia Bleaching Co. | Bleachery. |
| Augusta..... | W. F. Thomas and others..... | Canning Factory. |
| Augusta..... | Davenport Mfg. Co..... | Medicines. |
| Augusta..... | A. J. Twigg..... | Pulp Mill. |
| Augusta..... | John P. King Mfg. Co. | Additional Machinery. |
| Austell..... | Horton & Ware..... | Saw Mill. |
| Barnesville..... | W. P. Bussey..... | Variety Works. |
| Boston..... | S. G. Culpepper..... | Saw Mill. |
| Brunswick..... | Patent Piling Protect'n Co. | Piling Protection. |
| Brunswick..... | Tilly Bros. & Robertson..... | Grist Mill. |
| Brunswick..... | Brunswick Artesian Ice Co. | Ice Factory. |
| Cairo..... | Dekle & Butler..... | Saw Mill. |
| Camilla..... | C. W. Collins..... | Saw Mill. |
| Camilla..... | W. H. Brimberry..... | Saw and Grist Mill. |
| Canton..... | Georgia Mica Co..... | Mica Mining. |
| Canton..... | Brooke & Wise..... | Manganese Mining. |
| Cartersville..... | Charles Haslet..... | Manganese Mining. |
| Cedartown..... | W. J. Alexander & T. J. Nichol..... | Mining. |
| Cedartown..... | Cherokee Land & Imp. Co. | Mining. |
| Cedartown..... | Clay Bros..... | Brick Works. |
| Cedartown..... | R. H. Brewer..... | Saw Mill. |
| Cedartown..... | Sims & Auchmuty..... | Saw Mill. |
| Chauncey..... | Bush Bros..... | Brick Yard. |
| Chauncey..... | A. B. Steel..... | Saw and Planing Mill. |
| Clarksville..... | Porter Mfg. Co..... | Cotton Mill. |
| Clayton..... | Donaldson, Freeman & Co. | Wood-working Factory. |
| Columbus..... | Central R. R. & Bank'g Co. | Cotton Compress. |
| Columbus..... | Meyer, Ball & Stern..... | Clothing Factory. |
| Columbus..... | Muscogee Mfg. Co..... | Additional Cotton Mill. |
| Columbus..... | Homer Howard..... | Cotton Mill. |
| Columbus..... | Clegg Mfg. Co..... | Additional Machinery. |
| Columbus..... | Swift Mfg. Co..... | Enlarged Cotton Mill. |
| Columbus..... | David Mitchell..... | Bed-spread Factory. |
| Concord..... | T. Trice..... | Wood-working Factory. |
| Conyers..... | W. V. Almond..... | Coffin Factory. |
| Conyers..... | J. H. Almond..... | Gin. |
| Covington..... | W. M. Henry & Co..... | Mining. |
| Cumming..... | Sawnee Mt. Gold Min. Co. | Mining. |
| Dalton..... | Crown Cotton Mills..... | Additional Machinery. |
| Dalton..... | H. C. Hamilton..... | Mining. |
| Dalton..... | Dalton Mfg. Co..... | Manufacturing. |
| Dalton..... | Dalton Elec. & Gas Lt. Co. | Gas and Electric Works. |
| Dalton..... | Rocky Face Springs Co. | Mining, &c. |
| Dalton..... | Southern Queen Mining & Prospecting Co. | Mining. |
| Dalton..... | Barrett, Denton & Lynn..... | Flour Mill. |
| Dawson..... | B. H. Hood..... | Saw Mill. |
| Douglasville..... | Douglasville Canning & Preserving Co. | Canning Factory. |
| Dublin..... | Foster & McMillan..... | Brick Works. |
| Dubois..... | Samuel Carnes..... | Saw Mill. |
| Elberton..... | T. M. Swift..... | Novelty Factory. |
| Ellijay..... | M. V. Cox..... | Flour Mill. |
| Ellijay..... | M. V. Teen..... | Distillery. |
| Empire..... | Enterprise Lumber Co..... | Saw Mill. |
| Forsyth..... | Bennett Bros..... | Planing Mill. |
| Fort Valley..... | A. L. VanTassel..... | Fruit Evaporat'g Factory. |
| Gainesville, nr. J. T. Hargrove..... | Girard Knitting Factory..... | Double Knitting Factory. |
| Girard..... | R. H. Brewer..... | Saw Mill. |
| Grady..... | Gradyville Min. & Mfg. Co. | Manufacturing & Mining. |
| Griffin..... | M. L. Bates..... | Ginney, &c. |
| Griffin..... | J. C. King and others..... | Brick Yard. |
| Hawkinsville..... | J. L. Anderson..... | Grist Mill. |
| Hawkinsville..... | Parker, Peacock & Co. | Barrel Factory. |
| Hawkinsville..... | Hawkinsville Agricultural & Machine Co. | Agricultural Imp. Works. |
| Holly Springs..... | H. F. Miller..... | Mica Mine. |
| Homer..... | Haulbrook Bros..... | Agricult' Imp. Factory. |
| Juno..... | Charles J. Harben..... | Saw Mill. |
| Kingston..... | Gaines & Lewis..... | Improved Flour Mill. |
| Liberty..... | T. J. Slade..... | Saw Mill. |
| Macon..... | Macon Agricultural Works..... | Agricultural Imp. Factory. |
| Macon..... | Toole & Ernest..... | Brick Works. |
| Macon..... | Macon Grooved Picket Fence Co. | Fence Factory. |
| Macon..... | Eureka Co..... | Potash Factory. |
| Macon..... | Central R. R. & Banking Co. | Cotton Compress. |
| Macon..... | Hatcher Iron Wagon Co. | Wagons. |
| Macon..... | John Ruan..... | Brick Yard. |
| Macon..... | Scott Clark..... | Brick Yard. |
| Macon..... | Central City Ice Co. | Enlarged Ice Factory. |
| Marietta..... | American Marble Co. | Enlarged Works. |
| Marietta..... | Marietta Guano Co. | Fertilizers. |
| Marietta..... | McKenzie & Warren..... | Cotton-Seed Oil Mill. |
| Marshallville..... | A. L. VanTassel..... | Fruit Evaporat'g Factory. |
| Midland..... | E. P. Willis and others..... | Mill. |
| Midway..... | Enterprise..... | Knitting Factory. |
| Milledgeville..... | Enterprise..... | Water Works. |
| Milledgeville..... | L. H. Andrews..... | Broom Factory. |
| Milledgeville..... | Baldwin Co. Improvem't Co. | Tannery & Canning Facy. |
| Monticello..... | Enterprise..... | Brick Yard. |
| Mountaintown..... | Watkins and others..... | Mining. |
| Perry..... | Perry Variety Works..... | Grist Mill & Broom Fac. |
| Pine Mountain..... | Hampton Emory Co. | Corundum Mill. |
| Poulan..... | Kaufman Lumber Co. | Lumber. |
| Ringgold..... | James R. Cravens..... | Hub and Spoke Factory. |
| Rockmart..... | Wm. Tudor & Fred. Heart. | Copper Mining. |
| Rockmart..... | Georgia Lime & Cement Co. | Lime Works. |
| Rockmart..... | E. H. Cady..... | Ore Mining. |

| LOCATION. | NAME. | BUSINESS. |
|--------------------|-----------------------------------|-----------------------|
| Rockmart..... | Richards & Cook..... | Limestone Quarry. |
| Rockmart..... | W. B. Lyle & Co..... | Planing Mill. |
| Rockmart..... | S. P. Pearce..... | Mining. |
| Rome..... | Farmers' Friend Fence Machine Co. | Fence Factory. |
| Rome..... | Rogers & Reynolds..... | Enlarged Brick Works. |
| Rome..... | W. G. Wetty..... | Iron Bridge Works. |
| Rome..... | Rome Trunk Mfg. Co. | Trunk Factory. |
| Rome..... | Rome Rolling Mill Co. | Rolling Mill. |
| Rome..... | Rome Chair Factory..... | Chair Factory. |
| Sandersville..... | S. S. Parsons..... | Planing Mill. |
| Savannah..... | Arkwright Cotton Mills..... | Enlarged. |
| Savannah..... | Southern Cotton Oil Co. | Cotton-Seed Oil Mill. |
| Savannah..... | Pierce Pat. Stone & B'g Co. | Patent Stone. |
| Savannah..... | Pioneer Steam Brick Co. | Brick Works. |
| Savannah..... | Savannah Electric Light Co. | Enlarged Plant. |
| Savannah..... | Commercial Guano Co. | Fertilizer Factory. |
| Social Circle..... | Walker County Guano Co. | Fertilizer Factory. |
| Suwanee..... | John Mayhugh..... | Shingle Mill. |
| Tallapoosa..... | J. C. Jackson..... | Saw and Planing Mill. |
| Tallapoosa..... | M. E. Chivis..... | Brick Yard. |
| Tate..... | Georgia Marble Co. | Enlarged Works. |
| Temple..... | N. E. Allen..... | Saw Mill. |
| Thomaston..... | McGrady & Matthews..... | Cotton Compress. |
| Thomaston..... | Herring, Moyer & Co. | Furniture Factory. |
| Trenton..... | Lookout Val. Iron & Coal Co. | Mining, &c. |
| Tunnel Hill..... | Bowman & Springs..... | Manganese Mining. |
| Villa Rica..... | Villa Rica Lumber Co. | Lumber Mills. |
| Waynesville..... | W. M. Wiggins..... | Saw Mill. |
| West Point..... | West Point Mfg. Co. | Cotton Mill. |
| West Point..... | Union Milling & Mfg. Co. | Flour Mill, &c. |
| West Point..... | W. N. Gachet..... | Flour and Grist Mill. |
| Woodstock..... | W. H. Perkinson..... | Saw Mill. |

KENTUCKY.

| | | |
|--------------------|--|-----------------------|
| Ashland..... | Great Western Marble Co. | Marble Quarrying. |
| Ashland..... | Rising Star Marble Co. | Marble Quarrying. |
| Ashland..... | Faust Self-Extinguishing Car Stove Co. | Stoves. |
| Ashland..... | Hermann Desk Co. | Desk Factory. |
| Ashland..... | Herman Dining Room Furniture Co. | Furniture Factory. |
| Ashland..... | Herman Chamber Suit Furniture Co. | Furniture Factory. |
| Ashland..... | Ashland Dry Dock Co. | Dry Dock. |
| Ashland..... | Denmark Water Power & Iron Co. | Manufacturing. |
| Auburn..... | A. E. Griffith..... | Improved Flour Mill. |
| Augusta..... | N. J. Stroube..... | Improved Flour Mill. |
| Bardonia..... | T. P. Benjamin & Co. | Oil and Gas. |
| Bardonia..... | Besse, Shehan & Co. | Flour Mill. |
| Bellvue..... | Natural Gas & Oil Co. | Gas and Oil. |
| Boston..... | Surprise Oil & Gas Co. | Oil and Gas. |
| Bowling Green..... | John L. Row..... | Improved Flour Mill. |
| Carlisle..... | Rogers & Bastian..... | Rebuilt Flour Mill. |
| Cattlettsburg..... | John G. Patton & Co. | Improved Flour Mill. |
| Covington..... | Fred. J. Meyers Mfg. Co. | Iron Works. |
| Covington..... | Kentucky Oil & Mining Co. | Gas and Oil. |
| Covington..... | Knights of Labor Co-operative Cigar Mfg. Co. | Cigar Factory. |
| Covington..... | Geo. T. Card Mfg. Co. | Electrical Machinery. |
| Covington..... | Sandy River Coal Co. | Mining, &c. |
| Covington..... | Nowotny Mfg. Co. | Novelty Factory. |
| Covington..... | Clemens Hellman..... | Sash Factory. |
| Dayton..... | Economy Basket Mfg. Co. | Basket Factory. |
| Earlington..... | St. Bernard Coal Co. | Coke Ovens. |
| Elkton..... | P. B. Elkin..... | Distillery. |
| Fairfield..... | B. W. Humphrey..... | Improved Flour Mill. |
| Flemingsburg..... | Flemingsburg Nat. Gas Co. | Oil and Gas. |
| Ford..... | White Bros..... | Brick Yard. |
| Ford..... | Asher Bros..... | Saw Mill. |
| Frankfort..... | W. L. Pence..... | Saw Mill. |
| Frankfort..... | Mason, Gooch & Hoge Co. | Manufacturing, &c. |
| Frankfort..... | St. Helen's Land, Coal & Iron Co. | Manufacturing, &c. |
| Frederonia..... | M. M. Dollar & Son..... | Improved Flour Mill. |
| Gimlet..... | Unaka Lumber Co. | Saw Mill. |
| Glasgow..... | Glasgow Oil Mining & Natural Gas Co. | Gas and Oil. |
| Henderson..... | Brands Perfect'n Hame Co. | Hame Factory. |
| Henderson..... | Trenton Rock Natural Gas Mining & Mfg. Co. | Manufacturing, &c. |
| Hopkinsville..... | Hopkinsville Water Wks Co. | Water Works. |
| Louisville..... | Louisville, Ky., Woolen Mills Co. | Enlarging Mill. |
| Louisville..... | J. Schwartzwalder & Co. | Cooperage Factory. |
| Louisville..... | Henry Pilcher's Sons..... | Organ Factory. |
| Louisville..... | Reno Min. & Min. Land Co. | Mining, &c. |
| Louisville..... | J. N. Struck & Bro. | Planing |

| LOCATION. | NAME. | BUSINESS. |
|----------------------|--|---------------------------|
| New Iberia..... | A. & V. Meyer and others..... | Sugar Mill. |
| New Iberia..... | Acorn..... | Cistern Factory. |
| New Orleans..... | Teless Insulator Co..... | Electrical Appliances. |
| New Orleans..... | Southern Gas Econ. Co..... | Gas Economizers. |
| New Orleans..... | Pine Woods Distillation Co..... | Distillery. |
| New Orleans..... | R. B. Mitchell..... | Cistern Factory. |
| New Orleans..... | Brush Electric Light Co..... | Enlarged Plant. |
| New Orleans..... | Allen & Co..... | Charcoal Works. |
| New Orleans..... | Thomas O'Connor..... | Wagon Factory. |
| New Orleans..... | Gerard's Rectilinear Pro- peller & Rot'y Eng. Co..... | Engines, &c. |
| New Orleans..... | New Orleans Pinewood Distilling Co..... | Distillery. |
| New Orleans..... | Cross-Tie Timber Co..... | Cross Ties, &c. |
| New Orleans..... | Natural Oil Works & Mill Supply Co..... | Cotton Gins. |
| New River..... | Picard..... | Rice & Oil Mill & Comp's. |
| Opelousas..... | St. Landry Comp. Mfg. Co..... | Lumber Mill. |
| Plaquemine..... | A. Wilbert's Sons Lumber & Shingle Co..... | Foundry. |
| Plaquemine..... | Plaquemine Iron & Brass Foundry Co..... | Rice Mill. |
| Rayne..... | Rayne Milling & Mfg. Co..... | Sugar Mill. |
| St. Charles Par..... | R. Viterbo..... | Sugar Mill. |
| St. Charles Par..... | E. Rost..... | Sugar Mill. |
| Shreveport..... | Southern Petroleum & Mineral Develop'g Co..... | Coal, Gas, &c. |
| Sparta..... | Gibbs Lumber Mill..... | Planing Mill. |
| Springfield..... | J. E. Dubois and others..... | Chemical Works. |
| Springfield..... | Philip Jacobs and others..... | Saw Mill. |
| Washington..... | Philip Jacobs and others..... | Cotton Compress. |

MARYLAND.

| | | |
|----------------------|--|---------------------------|
| Adamstown..... | Henry E. Smith and others..... | Creamery. |
| Alleghany Co..... | W. H. Pepper and others..... | Fire Brick Works. |
| Baltimore..... | Pennsylvania Steel Co..... | Furnaces, &c. |
| Baltimore..... | Scott Mfg. Co..... | Foundry, &c. |
| Baltimore..... | Standard Brewing Co..... | Brewery. |
| Baltimore..... | Nat'l Consumers Meat Co..... | Meat Factory. |
| Baltimore..... | J. F. Weissner & Bro..... | Brewery. |
| Baltimore..... | M. T. Dorsey..... | Chemical Works. |
| Baltimore..... | Geo. Bauernschmidt..... | Ice Factory. |
| Baltimore..... | Marburg Bros..... | Enlarged Tobacco Fact'y. |
| Baltimore..... | James Bates..... | Enlarged Foundry. |
| Baltimore..... | Stand. Auto. Gas Light Co..... | Lamps, &c. |
| Baltimore..... | Baltimore Brewing Co..... | Brewery. |
| Baltimore..... | Emmatt Wightman & Co..... | Can Factory. |
| Baltimore..... | Columbian Iron Works & Dry Dock Co..... | Electric Light. |
| Baltimore, near..... | S. W. Ritter..... | Brick Yard. |
| Castleton..... | James T. Knight..... | Canning Factory. |
| Ceresville..... | E. A. Shriner & Son..... | Improved Flour Mill. |
| Clara..... | Waring Fertilizer Co..... | Enlarged Works. |
| Deer Creek..... | Chas. A. Rutledge..... | Saw Mill & Cann'g Fact'y. |
| Derwood..... | D. H. Kent..... | Flour Mill. |
| Dulaney's..... | John W. Barber & Co..... | Flour Mill. |
| Elkton..... | Elkton Machine Works..... | Enlarged Works. |
| Elkton..... | J. D. Carter..... | Improved Paper Mill. |
| Elkton..... | M. Gambrill & Co..... | Cotton Mill. |
| Feagville..... | Red Spring Creamery Co..... | Creamery. |
| Flintstone..... | Flintstone Land & Min. Co..... | Mining, &c. |
| Frederick..... | Frederick Seam's Hov'y Co..... | Hosiery Factory. |
| Frederick..... | Catharine Min. & Mfg. Co..... | Mining, &c. |
| Frederick..... | C. L. C. Lampe..... | Creamery. |
| Freeland..... | A. Shaves & Son..... | Enlarged Paper Mill. |
| Germantown..... | L. L. Watkins..... | Flour Mill. |
| Hagerstown..... | Danzon Lumber Co..... | Furniture Factory. |
| Havre de Grace..... | Vandiver & Murphy..... | Mining. |
| Hydes..... | Haite & Jessoh..... | Canning Factory. |
| Joppa..... | Herman Lehman..... | Canning Factory. |
| Clayton..... | Leinan Bros..... | Canning Factory. |
| Longwoods..... | Wm. T. Elbin..... | Flour Mill. |
| Mechanistown..... | Mechanistown Water Co..... | Water Works. |
| Oakland..... | Oakland Coal & Coke Co..... | Coke Ovens. |
| Oakland..... | G. W. Moon & Co..... | Bed Spring Factory. |
| Odenton..... | Geo. M. Murray..... | Canning Factory. |
| Oxford..... | Oxford Mfg. Co..... | Toy Factory. |

MISSISSIPPI.

| | | |
|----------------------|--------------------------------------|-----------------------------|
| Biloxi..... | H. W. Hitchcock..... | Canning Factory. |
| Bogue Chitto..... | Keystone Lumber Co..... | Saw Mill. |
| Columbus..... | S. Rosenbaum & Co..... | Furniture Factory. |
| Columbus..... | C. Terry..... | Brick Yard. |
| Columbus..... | Columbus Gas Works..... | Enlarged Gas Works. |
| Corinth..... | M. A. Powell..... | Stave Factory. |
| Corinth..... | W. T. Adams Machine Co..... | Mach. Shop & Foundry. |
| Crystal Springs..... | Miss. & Tenn. Iron & Mfg. Co..... | Brick Yard. |
| Duck Hill..... | E. E. Row..... | Gin. |
| Fort Adams..... | P. Cates..... | Lumber Mill. |
| Greenville..... | Greenville Water Works Co..... | Water Works. |
| Greenville..... | Planters' Com. & Ware Co..... | Cotton Compress. |
| Hattiesburg..... | Kamper & Buschman..... | Saw and Planing Mill. |
| Hattiesburg..... | Robinson & Co..... | Brick Works. |
| Myrtle..... | Baker & Wilkinson..... | Saw Mill. |
| Natchez..... | Robert Clark..... | Clay Factory. |
| Natchez..... | Thomas Reber..... | Electric Light Works. |
| Natchez..... | Dixon Bros..... | Stained Glass Factory. |
| Natchez..... | Natchez Cotton Mills Co..... | New Machinery. |
| Okolona..... | Brown & Bro..... | Tile Factory. |
| Shell Mound..... | Oscar F. Sheldoe..... | Saw Mill. |
| Vicksburg..... | Warren County Mfg. Co..... | Cotton & Cot. sd. Oil Mill. |
| West Point..... | West Point Compress Co..... | Cotton Compress. |
| Yazoo City..... | Swain & Hansmen..... | Grist Mill. |

NORTH CAROLINA.

| | | |
|----------------------|---|-------------------------|
| Asheville..... | C. G. West & Co..... | Wood-working Factory. |
| Asheville..... | Sherman & Stevens..... | Cigar Factory. |
| Asheville..... | Tuckasee Lumber Co..... | Sash and Door Factory. |
| Asheville..... | Mayor & City Council..... | Brick Yard. |
| Asheville..... | R. N. Adams & Son..... | Furniture. |
| Asheville..... | Asheville Electric Light & Power Co..... | Enlarged Plant. |
| Asheville..... | Cit' Grist Mill..... | Grist Mill. |
| Asheville..... | John Hart..... | Planing Mill. |
| Boat's Mills..... | Boat & Cannon..... | Flow Works. |
| Bynum's..... | J. M. Odell Mfg. Co..... | Add. Cotton Machinery. |
| Charlotte..... | Piedmont Milling Co..... | Corn and Feed Mill. |
| Charlotte..... | C. Valer & Co..... | Bottling Factory. |
| Charlotte..... | Brem & McDowell..... | Brick and Tile Works. |
| Charlotte..... | Phillip Schiff..... | Bone Mill. |
| Clemmonsville..... | J. T. Swain..... | Saw Mill. |
| Cotteridge..... | Enterprise Mfg. Co..... | Additional Machinery. |
| Concord..... | Odell Mfg. Co..... | New Machinery. |
| Cullasaja..... | H. S. Lucas..... | Ore Crusher and Washer. |
| Davidson Col'ge..... | Stough, Cornelius & Co..... | Cotton Mill. |
| Davidson Col'ge..... | M. W. Crawford..... | Root and Shoe Factory. |
| Dover..... | John W. Moody..... | Saw Mill. |
| Dunn..... | A. B. Goodwin..... | Buggy Factory. |
| Dunn..... | Parker & Harper..... | Brick Yard. |
| Durham..... | James V. Whitted..... | Tobacco Factory. |
| Durham..... | Durham Furniture Mfg. Co..... | Furniture Factory. |
| Durham..... | Fauett-Durham Tobacco & Snuff Co..... | Enlarged Factory. |
| Elk Park..... | Harper & Burharts..... | Furniture Factory. |
| Emma..... | Penniman & Patton..... | Brick Works. |
| Fayetteville..... | John L. Allen..... | Tobacco Factory. |
| Fayetteville..... | Sutton & Henzy..... | Novelty Works. |
| Fayetteville..... | E. G. Stryon & Co..... | Grist Mill. |
| Fayetteville..... | Hope Mfg. Co..... | Enlarged Cotton Mill. |
| Fayetteville..... | Beaver Creek & Bluff Mills..... | Enlarged Cotton Mill. |
| Forest City..... | D. E. Stearns..... | Mining. |
| Forest City..... | Turner & Hayes..... | Saw Mill. |
| Franklinton..... | J. D. Joyner..... | Planing Mill. |
| Gaston..... | Spence & Hull..... | Carriage Factory. |
| Goldsboro..... | Goldsboro Furnit're Mfg. Co..... | Furniture Factory. |
| Goldsboro..... | W. H. Griffin..... | Brick Yard. |
| Graham..... | W. G. Wilson..... | Saw Mill. |
| Granite..... | Hunter, Hoke & Turner..... | Shuttle Block Factory. |
| Granite..... | Isard & Miller..... | Gin. |

| | | |
|--------------------------|--|--------------------------|
| Greensboro..... | Peterfish & Gibbs..... | Cigar Factory. |
| Greensboro..... | Thompson-Houston Elec- tric Light Co..... | Electric Light Works. |
| Greensboro, nr..... | W. A. Fields..... | Mining. |
| Henderson..... | Strause & Raab..... | Tobacco Prize Factory. |
| Hickory..... | Link, McComb & Co..... | Canning Factory. |
| Hickory..... | A. A. Shuford..... | Cotton Mill. |
| High Point..... | Empire Plaid Mills..... | Enlarged Cotton Mill. |
| Indian Town..... | Jones, Stevens & Bray..... | Grist Mill. |
| Jamestown..... | Oakdale Mfg. Co..... | Cotton Mill. |
| Kinston..... | H. C. Parrott..... | Lumber Mill. |
| Knob Creek..... | John Cline..... | Shingle Mill. |
| Lexington..... | Hanes Mfg. Co..... | Canning Factory. |
| Lincolnton..... | J. L. Kistner..... | Shuttle Block Factory. |
| Mill Hill..... | Jacob Strenall..... | Flour Mill. |
| Monbo..... | Monbo Mfg. Co..... | Cotton Mill. |
| Monbo..... | J. S. Troutman..... | Flour Mill. |
| Mount Mourne..... | Harris & Co..... | Saw Mill. |
| Newberne..... | W. B. Blades & Bro..... | Saw Mill. |
| Newberne..... | J. M. Hines..... | Manufacturing Furniture. |
| Newton..... | Newton Cotton Mills..... | Additional Machinery. |
| Onslow County..... | Ward & Rochelle..... | Saw Mill. |
| Parkwood..... | N. C. Millstone Co..... | Ice Factory. |
| Prosperity..... | W. K. Jackson..... | Flour Mill. |
| Raleigh..... | Falls of Neuse Mfg. Co..... | Enlarged Cotton Mill. |
| Raleigh..... | Jones & Powell..... | Shingle Mill. |
| Rutherfordton..... | Arrowood & King..... | Planing Mill. |
| Rutherfordton..... | Henrietta Mills..... | Cotton Mill. |
| Rutherfordton, near..... | T. J. Watson..... | Grist and Flour Mill. |
| Salem..... | S. T. Pierce..... | Chair Factory. |
| Salisbury..... | Geo. T. Heller..... | Cig r Factory. |
| Salisbury..... | Foard, Rice & Bost..... | Tobacco Factory. |
| Salisbury..... | Robertson & Miller..... | Tobacco Factory. |
| Salisbury..... | Beall & Co..... | Tobacco Factory. |
| Salisbury..... | C. W. Carrier..... | Fertilizer Factory. |
| Salisbury..... | Johnson & Ramsay..... | Tobacco Factory. |
| Salisbury..... | Yadkin Mining & Mill'g Co..... | Reduction Works. |
| Salisbury, near..... | A. T. Nye, manager..... | Minine Machinery. |
| Shelby..... | Cleveland Mica Co..... | Ore Mining. |
| Shelby..... | Anderson & Parrett..... | Brick Yard. |
| Shelby..... | C. Fromm..... | Planing Mill. |
| Southern Pines..... | A. A. Bland..... | Saw and Planing Mill. |
| Staley..... | A. C. Burgess & Co..... | Grist Mill. |
| Swan Quarter..... | Spencer Bros..... | Shuttle Block Factory. |
| Swift Island..... | Elias Hurley..... | New Machinery. |
| Thomasville, nr..... | Appalachian Gold Mine..... | Quarrying. |
| Wadesboro..... | Wadesboro Brown Stone Co..... | Shuttle Block Factory. |
| Wadeville..... | W. L. Wade & Bro..... | Plumbago Mining. |
| Webster, near..... | ..... | ..... |

SOUTH CAROLINA.

| | | |
|----------------------|--------------------------------|-------------------------|
| Aiken..... | Craig Kaolin Co..... | Kaolin Mine. |
| Beech Island..... | B. D. Lamar..... | Chalk Mining. |
| Bennettsville..... | Marlboro Mfg. Co..... | Cotton Mill. |
| Bishopville..... | Floyd & Andrews..... | Grist Mill. |
| Bishopville..... | P. G. Bowmanger..... | Broom Factory. |
| Camden..... | W. E. Glenn..... | Brick Yard. |
| Catawba..... | Catawba Falls Mfg. Co..... | Manufacturing. |
| Central..... | Wilson & Phillips..... | Improved Saw Mill. |
| Charleston..... | Brown & Howe..... | Planing Mill. |
| Charleston..... | Charleston Lt. & Power Co..... | Gas Works. |
| Charleston..... | Charleston St. Laundry Co..... | Shirt Factory. |
| Charleston..... | Welch & Eason..... | Coffee-Roasting Mill. |
| Chesterfield Co..... | E. Metz..... | Stamp Mill, &c. |
| Clifton..... | Clifton Mfg. Co..... | Cotton Mill. |
| Columbia..... | M. A. Markley & Co..... | Hosiery Factory. |
| Columbia..... | Southern Cotton Oil Co..... | Cotton-seed Oil Mill. |
| Columbia..... | J. E. Turner..... | Canning Factory. |
| Darlington..... | Woods & Spain..... | Brick Yard. |
| Dudley..... | W. R. Massey..... | Gin. |
| Edgefield..... | O. O. Barr..... | Saw Mill. |
| Enoree..... | ..... | Cotton Mill. |
| Fork Shoals..... | Fork Shoals Mfg. Co..... | Add. Cotton Machinery. |
| Fort Mill..... | Fort Mill Mfg. Co..... | Cotton Mill. |
| Graniteville..... | Graniteville Mfg. Co..... | Add. Cotton Machinery. |
| Greenville..... | Huguenot Mills..... | Enlarged Cotton Mill. |
| Hampton C. H..... | Maule & Son..... | Saw Mill. |
| Laurens..... | A. J. Sisson..... | Cotton Mill. |
| Laurens..... | Laurens Brick Mfg. Co..... | Brick Yard. |
| Laurens..... | McRay..... | Mining. |
| Mayesville..... | C. P. Mallett..... | Saw Mill. |
| Mount Pleasant..... | Mount Pleasant Canning Co..... | Canning Factory. |
| Orangeburg..... | Pacolet Mfg. Co..... | Water Works. |
| Pacolet..... | Wheeler & Mosely..... | Doubling Cotton Mill. |
| Prosperity..... | W. S. Creighton & Co..... | Gin. |
| Rock Hill..... | G. A. Cowan..... | Planing Mill. |
| Rock Hill..... | G. A. Cowan..... | Tobacco Factory. |
| Sumter..... | A. C. Durant..... | Brick Yard. |
| Sumter..... | H. G. Scarborough..... | Brick Yard. |
| Sumter..... | Chas. F. Blakeman Mfg. Co..... | Water Works. |
| Sumter..... | Mallett Bros..... | Saw Mill. |
| Triangle..... | ..... | Hub and Handle Factory. |
| Union..... | ..... | Cotton Mill. |
| Walhalla..... | R. M. Richardson..... | Saw and Planing Mill. |
| Walterborough..... | Wm. Stokes..... | Saw Mill. |
| Waterloo..... | J. T. Harris..... | Flour and Grist Mill. |

TENNESSEE.

| | | |
|-------------------|---|--------------------------|
| A. B. C..... | Charles Duffer..... | Distillery. |
| Athens..... | Athens Mining & Mfg. Co..... | Cotton Mills, &c. |
| Athens, near..... | James H. Bean and others..... | Manufacturing & Mining. |
| Blountville..... | D. J. Hickman..... | Ore Mining. |
| Blountville..... | ..... | Ore Mining. |
| Bolivar..... | S. R. Conger..... | Saw Mill. |
| Bristol..... | J. A. Buffman & Co..... | Planing Mill. |
| Bristol..... | W. F. Collins..... | Broom Factory. |
| Bristol..... | John R. Richardson..... | Broom Factory. |
| Buckeye..... | James George and others..... | Coal Mines. |
| Cedar Hill..... | B. A. Powell..... | Saw Mill. |
| Chattanooga..... | Fast Tenn. Mfg. & Bld. Co..... | Brick Yard & Sash Fac'y. |
| Chattanooga..... | H. A. Johnson & Co..... | Planing Mill. |
| Chattanooga..... | J. T. Keamy and others..... | New Machinery. |
| Chattanooga..... | Dobbs & Reynolds..... | Grist Mill. |
| Chattanooga..... | Luper & Carey..... | Brick Yard. |
| Chattanooga..... | H. H. Embrey..... | Spice Mill. |
| Chattanooga..... | Chattanooga Lumber & Mfg. Co..... | Saw Mill. |
| Chattanooga..... | Chattanooga Canning Co..... | Enlarged Factory. |
| Chattanooga..... | Hamilton Nat. Gas & Oil Co..... | Oil and Gas. |
| Chattanooga..... | Crescent Mining Co..... | Mining. |
| Chattanooga..... | Chattanooga Land, Coal, & Iron & Railway Co..... | Manufacturing, &c. |
| Chattanooga..... | Soddy Coal, I., & Rwy. Co..... | Soddy Coal Mine. |
| Chattanooga..... | D. J. Chandler..... | Doubled Brick Works. |
| Chattanooga..... | J. F. Wright..... | Doubled Brick Works. |
| Chattanooga..... | Eagan & Co..... | Brick Works. |
| Chattanooga..... | Chatta. Baking & Candy Co..... | Candy Factory. |
| Chattanooga..... | Blount Stave & Mach' Co..... | Barrel Factory. |
| Chattanooga..... | S. D. Duncan..... | Wool Carding Factory. |
| Chattanooga..... | J. Howenstine & Co..... | Box Factory. |
| Chattanooga..... | J. C. Crimmer..... | Box Factory. |
| Chattanooga..... | Central Elevator Co..... | Grain Elevator. |
| Chattanooga..... | Chat. Coffin & Cask Co..... | Coffin Factory. |
| Chattanooga..... | James Gifford..... | Factory. |
| Chattanooga..... | Union Iron Works..... | Boiler and Wire Works. |
| Chattanooga..... | Chattanooga Tool Co..... | Agricultural Tools. |
| Chattanooga..... | N. Chatta. Water Wks. Co..... | Water Works. |
| Chattanooga..... | Chattanooga Ice & Bot. Co..... | Improved Works. |
| Chattanooga..... | Southern Grate Co..... | Mining & Manufacturing. |
| Chattanooga..... | Stoops Bros..... | Planing Mill. |
| Chattanooga..... | Snodgrass & Fields..... | Box Factory. |
| Cleveland..... | Palmer, McDavis & Co..... | Saw Mill. |
| Cleveland..... | John C. Black..... | Creamery. |
| Cleveland..... | S. W. Marshall & Co..... | Planing Mill. |
| Cleveland..... | Cleveland Gas Co..... | Gas Works. |
| Cleveland..... | W. C. Mansfield..... | Improved Flour Mill. |
| Clinton..... | Thomas Lumber & Mfg. Co..... | Lumber. |
| Columbia..... | W. J. Oakes..... | Furniture Factory. |
| Columbia..... | Lamb & Smith..... | Furniture Factory. |
| Columbia..... | J. B. Ashton..... | Flour Mill. |

| | | |
|------------------------|---|---|
| Columbia..... | C. H. Mocker & Barker..... | Barrel Factory. |
| Columbia..... | Cox & Martin..... | Factory. |
| Columbia..... | Craig & Williams..... | Enlarged Machine Shop. |
| Covington..... | Randall Bros. & Co..... | Lumber Mill. |
| Crossville..... | Walter Andrews..... | Planing and Grist Mill. |
| Crossville..... | Crossville Oil, Gas & Co'l Oil and Gas. | Oil and Gas. |
| Cumberl'd Gap..... | American Ass'n (limite 1)..... | Mining. |
| Dayton..... | Dayton Oil & Gas Co..... | Oil and Gas. |
| Dayton..... | Wm. Whit..... | Iron Foundry. |
| Dickson..... | Dickson Axe Handle & Co-operative Mfg. Co..... | Handle and Furniture Fac- tory and Grist Mill. |
| Dickson..... | Dickson Co-operative Co..... | Woolen Mill. |
| Dickson..... | D. G. Colson..... | Brick and Tile Works. |
| Dickson..... | Dickson Co-operative Co..... | Plan. Mill & Sash Fac'y. |
| Elora..... | W. H. Morgan..... | Grist Mill. |
| Fayetteville..... | Harmes Bros..... | Saw Mill. |
| Fayetteville..... | Middle Tennessee Marble & Mfg. Co..... | Quarrying. |
| Gallatin..... | Samuel Lyon..... | Flour Mill. |
| Gallatin..... | W. L. Baker..... | Chair Factory. |
| Germantown..... | Kimrough & Triggles..... | Saw and Grist Mill. |
| Greenville..... | J. A. Galbraith & Son..... | Knitting Factory. |
| Johnson City..... | Oliver Cure..... | Planing Mill. |
| Johnson City..... | H. A. Clark..... | Flour Mill. |
| Johnson City..... | Johnson City Furniture Co..... | Enlarging Furniture Facy. |
| Johnson City..... | Johnson City Wat. Wks. Co..... | Water Works. |
| Johnson City..... | Johnson City Elec. Lt. Co..... | Electric Light Works. |
| Johnson City..... | C. K. McCallum..... | Ice Factory. |
| Jonesboro..... | J. J. Hunt..... | Wagon Factory. |
| Jonesboro..... | G. W. Bolinger..... | Machine Shops. |
| Kingston..... | W. C. Turner..... | Mining. |
| Kingston..... | Kingston Mining & Mfg. Co..... | Mining. |
| Knoxville..... | Knoxville Car Wheel Co..... | Enlarged Works. |
| Knoxville..... | Stinette Marble Co..... | Quarrying. |
| Knoxville..... | Scates Warm Air Fur'ce Co..... | Manufacturing. |
| Knoxville..... | Knoxville Petro. & Gas Co..... | Gas and Oil. |
| Knoxville..... | Knoxville Lime Works..... | Lime Works. |
| Knoxville..... | Ferguson & Bearden..... | Sash and Blind Factory. |
| Knoxville..... | Co-operative Shirt & Over- all Co..... | Shirt Factory. |
| Knoxville..... | Coal Creek Mining Co..... | Increased Mining. |
| Knoxville..... | C. Cone..... | Cracker Factory. |
| Knoxville..... | Edes Mixer & Heald..... | Concentrating Works. |
| Knoxville..... | Zinc Co..... | Concentrating Works. |
| Knoxville..... | Pratt & Cole..... | Tannery. |
| Lebanon..... | Organ & Thompson..... | Broom Factory. |
| Lebanon..... | John W. Bennett..... | Saw Mill. |
| Manchester..... | L. D. Hickerson..... | Saw Mill. |
| Marcella Falls..... | Clayton & Renfro..... | Tannery. |
| Maryville..... | Carmell, Ivins & Co..... | Broom Factory. |
| McMinnville..... | Annis Cotton Mill Co..... | Cotton Mill. |
| McMinnville..... | Falcon Roller Mill Co..... | Flour Mill. |
| Mitchellville, nr..... | Denning..... | Distillery. |
| Memphis..... | Chickasaw Saddlery Co..... | Saddlery Factory. |
| Memphis..... | Southern Cotton Oil Co..... | Cotton-seed Oil Mill. |
| Memphis..... | Bluff City Brick & Mfg. Co..... | Brick Works. |
| Memphis..... | Chickasaw Land Co..... | Lumber Mills. |
| Montvale..... | J. C. Engle..... | Mining. |
| Morell's Mills..... | McPherson Gold Mine..... | Mining. |
| Morristown..... | Morristown Mill Co..... | Improved Flour Mill. |
| Morristown..... | Hawkins Mar. Develop. Co..... | Marble. |
| Mulberry..... | J. B. Thomason..... | Improved Flour Mill. |
| Nashville..... | Landsburg Min. & Con. Co..... | Mining, &c. |
| Nashville..... | State Anthracite Gas Co..... | Gas. |
| Nashville..... | Ga. & N. C. Manganese, Iron & Marble Co..... | Mining, &c. |
| Nashville..... | Southern Car Heating & Illuminating Co..... | Manufacturing. |
| Nashville..... | Trade Water Coal Co..... | Mining, &c. |
| Nashville..... | Peoples' Natural Gas & Fuel Co..... | Natural Gas, &c. |
| Nashville..... | McLaughlin Portable Elec- tric Light & Power Co..... | Manufacturing, &c. |

| LOCATION. | NAME. | BUSINESS. |
|---------------------|--|--------------------------|
| Dallas..... | Dallas City Gas Light Co. | Improving Plant. |
| Dallas..... | Dallas Ice Factory..... | Ice Factory. |
| Dallas..... | North Texas Lumber Co. | Lumber. |
| Decatur..... | Swan & Rosenberg..... | Mining. |
| Denison..... | Alliance Milling Co. | Flour Mill. |
| Denison..... | Denison Nat. Gas. Coal & Mining Co. | Gas, &c. |
| Denton..... | Denton Coal Co. | Coal Mining. |
| Denton..... | Denton Brown Sand Stone Co. | Quarrying. |
| Dublin..... | ..... | Artesian Water Works. |
| El Paso..... | El Paso Smelting Works. | Smelting Works. |
| El Paso..... | Union Powder Co. | Powder Works. |
| Fiskville..... | L. M. Mays..... | Coal Mining. |
| Fort Worth..... | Fort Worth Machine & Boiler Works. | New Works. |
| Fort Worth..... | Fort Worth Tannery Co. | Tannery. |
| Fort Worth..... | Fort Worth Ice Co. | Ice Factory. |
| Fort Worth..... | Fort Worth Iron Works. | Iron Works. |
| Fort Worth..... | Texas Natural Gas Co. | Natural Gas. |
| Fort Worth..... | A. T. & Santa Fe R. R. | Machine Shops. |
| Fort Worth..... | Fort Worth Water Power & Mfg. Co. | Manufacturing. |
| Fort Worth..... | W. F. Lake and others. | Horse Collar Factory. |
| Fort Worth..... | St. Louis, Ark. & Tex. R. R. | Machine Shops, &c. |
| Fort Worth..... | Fort Worth Electric Light & Power Co. | Enlarged Plant. |
| Fort Worth..... | Samuel Evans and others. | Cotton & Woolen Mill. |
| Gainesville..... | J. D. Buckley..... | Planing Mill. |
| Gainesville..... | Electric Light, Heat & Power Co. | Electric Light. |
| Galveston..... | ..... | Flour Mill. |
| Galveston..... | Brush Elec. Lt. & Pow. Co. | Enlarged Plant. |
| Galveston..... | J. J. Schott Mfg. Co. | Manufacturing. |
| Galveston..... | Taylor Compress Co. | Cotton Compress. |
| Galveston..... | Brazoria Land & Cattle Co. | Abattoir, &c. |
| Galveston..... | Galveston Bag & Cord Co. | Bagging Factory. |
| Galveston..... | J. W. Byrnes..... | Pitch Works. |
| Galveston..... | Toebeleman & Co. | Shoe Factory. |
| Gordon..... | Jas. Byrnes & John Thomas. | Coal Mining. |
| Granbury..... | J. W. Day..... | Ice Factory. |
| Greenville..... | Texas Compress Associat'n. | Compress. |
| Greenville..... | ..... | Flour Mill. |
| Greenville..... | T. H. Ring & B. F. Loney. | Cotton Compress. |
| Henderson..... | J. H. Douglas..... | Canning Factory. |
| Hillsboro..... | Hillsboro Compress Co. | Cotton Compress. |
| Houston..... | Ziegler & Co. | Enlarged Cotton Pickery. |
| Honey Grove..... | Honey Grove Mill & Elevator Co. | Flour Mill. |
| Houston..... | John F. Dickson..... | Car Wheel Works. |
| Houston..... | Houston El. Lt. & Pow. Co. | Electric Light Works. |
| Leaky..... | Texas Mining, Mfg. & Chemical Co. | Mining. |
| La Grange..... | La Grange Water Co. | Water Works. |
| Laredo..... | Mexican Nat. Railway Co. | Machine Shops. |
| Laredo..... | Guadalupe Mining Co. | Smelter. |
| Lewisville..... | Lewisville Milling Co. | Flour Mill. |
| Longview..... | Galveston, Sabine & St. Louis R. R. | Machine Shops. |
| Malakoff..... | Malakoff Mining Co. | Coal Mining. |
| Marble Falls..... | Marble Falls Mfg. Alliance. | Cotton and Flour Mill. |
| Marietta..... | Peters..... | Flour Mill. |
| Marshall..... | H. E. Carter & J. H. Copeland. | Broom Factory. |
| Marshall..... | J. M. Wheat & Co. | Saw and Shingle Mill. |
| Marshall..... | Marshall Car Wh. & Fdy. Co. | Wood-working Shop. |
| Marshall..... | Marshall Car Wh. & Fdy. Co. | Enlarged Machine Shops. |
| Masterville..... | L. N. Bruce..... | Remodel Flour Mill. |
| McKinney..... | Collin Co. Mill & Elevator Co. | Flour Mill. |
| McKinney..... | Water Supply Association. | Water Works. |
| McKinney..... | Dewar & Marley..... | Ice Factory. |
| McKinney..... | McKinney Oil Works. | Cotton-seed Oil. |
| Midlothian..... | G. W. Shaffer..... | Flour Mill. |
| Midlothian..... | Hudson & Thrallkill. | Flour Mill. |
| Morgan..... | Morgan Wat. Wks. & Ice Co. | Water Works. |
| Mount Pleasant..... | ..... | Brick Yard. |
| Mount Pleasant..... | Hargrove & Moore. | Canning Factory. |
| Mount Pleasant..... | Sugg & Williams. | Planing Mill. |
| Navasota..... | J. M. Camp and others. | Compress. |
| Palestine..... | Edison Illuminating Co. | Enlarge Plant. |
| Paris..... | Arctic Ice & Refrigerator Co. | Refrigerating Rooms, &c. |
| Paris..... | A. McLaughlin..... | Flour Mill. |
| Pilot Point..... | Moffit & Harrison. | Corn Mill. |
| Riverside..... | A. M. Shannon & Co. | Stone Quarrying. |
| Rusk..... | Robert Pryor..... | Saw Mill. |
| San Antonio..... | San Antonio Brewing Ass'n. | Ice Factory. |
| San Antonio..... | San Antonio Electric Light & Power Co. | Electric Light Works. |
| San Antonio..... | San Antonio Foundry Co. | Foundry. |
| Santa Anna..... | Harrison Mining Co. | Coal Mining. |
| Santa Anna..... | Wm. Annesser..... | Flour Mill. |
| Sherman..... | Farmers' Alliance. | Flour Mill. |
| Sherman..... | Sherman Foundry & Machine Works. | Enlarged. |
| Sherman..... | Sherman Oil & Cotton Co. | Improved Oil Mill. |
| Tadmore..... | John Pool..... | Saw Mill. |
| Taylor..... | Taylor Water Co. | Enlarge Plant. |
| Temple..... | Central Texas Cotton Co. | Cotton Mill. |
| Terrell..... | operative Mfg. Union. | Cotton Mill. |
| Texarkana..... | Pioneer Coal, Lt. & Min. Co. | Mining. |
| Texas..... | Matthews Lumber Co. | Lumber Mills. |
| Tyler..... | Tyler Water Co. | Improved Water Works. |
| Tyler..... | ..... | Tannery. |
| Tyler..... | Farmers' Alliance. | Cotton Mill. |
| Tyler..... | Tyler Lumber & Mfg. Co. | Lumber. |
| Tyler..... | Mayor & City Council. | Gas Works. |
| Van Horn..... | San Antonio Mining Co. | Mining. |
| Waco..... | Waco Cotton Mills. | Enlarged Mill. |
| Warren..... | Texas Timber Co. | Lumber. |
| Wheelock..... | Texas & Pacific R. R. Co. | Machine Shops. |
| Whitewright..... | Whitewright Milling Co. | Flour Mill. |
| Wichita Falls..... | Wichita Falls & Winfield R. R. Co. | Machine Shops. |
| Wylie..... | Champlin & Smith. | Ginnery. |

VIRGINIA.

| | | |
|---------------------|---------------------------|--------------------------|
| Abbyville..... | John D. Cornwell..... | Gold Mining. |
| Abingdon..... | Damascus Enterprise Co. | Saw Mill. |
| Aldie..... | J. E. Douglas..... | Saw Mill. |
| Barren Springs..... | H. Clark..... | Barytes Mining. |
| Balcony Falls..... | Balcony Falls Co. | Manufacturing. |
| Berkley..... | White & Francis..... | Spring Bed Factory. |
| Bonsacks..... | J. O. Hanes..... | Zinc and Silver Mining. |
| Brentville..... | ..... | Mining. |
| Buchanan..... | D. S. Cook..... | Mining. |
| Buchanan..... | Wm. Wammock..... | Broom Factory. |
| Buchanan..... | Henry E. Boyd..... | Canning Factory. |
| Buffalo Gap..... | W. H. Clare..... | Saw and Planing Mill. |
| Central..... | J. H. Tyler..... | Brick Yard. |
| Clarksville..... | New South Cigar Works Co. | Cigar Works. |
| Columbia..... | Tagas Mill & Mining Co. | Mill. |
| Covington..... | Frank Lyman..... | Mining. |
| Coyner's Sp'gs..... | ..... | Mining. |
| Coyner's Sp'gs..... | T. F. Weeks & Son. | Canning Factory. |
| Daleville..... | E. G. Ninger..... | Canning Factory. |
| Danville..... | J. T. Morris & Co. | Shoe Factory. |
| Delaplane..... | Bagby & Co. | Water Works. |
| Dublin..... | ..... | Flour Mill. |
| Farmville..... | Geo. Campbell & Co. | Bark Mill. |
| Fincastle..... | L. P. Holladay..... | Canning Factory. |
| Fincastle..... | Oscar Bowyer..... | Foundry. |
| Floyd C. H..... | Winfield Scott..... | Axe and Handle Factory. |
| Galt's Mills..... | S. A. Wright..... | Saw Mill & Sash Factory. |
| Graham's Forge..... | D. P. Graham..... | Ore Mining. |
| Greenville..... | Anderson & Waddy..... | Ore Mining. |
| Greenville..... | Vines & Steel..... | Ore Mining. |
| Hamilton..... | S. W. Kable..... | Carriage Factory. |
| Hardwickville..... | A. N. White & Co. | Bark Mills. |
| Haymarketown..... | Ross & Rice..... | Canning Factory. |
| Hillsboro..... | Hillsboro Water Co. | Water Works. |

| LOCATION. | NAME. | BUSINESS. |
|----------------------|---------------------------------------|--------------------------|
| Hillsville..... | Magnetic Mining Co. | Mining. |
| Ivanhoe Furnace..... | New River Mineral Co. | Enlarge Furnace. |
| Jeffersonville..... | Clinch Val. Coal & Iron Co. | Mining & Manufacturing. |
| Jeffersonville..... | Tazewell Coal & Iron Co. | Mining. |
| Jeffersonville..... | Kent Ridge Coal & Iron Co. | Mining. |
| Liberty..... | Bedford Spoke & Iron Mfg. Co. | Improving Works. |
| Liberty..... | F. A. Smith & O. C. Ruskin. | Plow Factory. |
| Liberty..... | Bolling, Wright & Co. | Tobacco Factory. |
| Loudoun County..... | L. F. Palmer and others. | Creamery. |
| Lynchburg..... | Winfree Sons & Maupin. | Additional Machinery. |
| Lynchburg..... | John Reickle..... | Basket Factory. |
| Lynchburg..... | Larkin & Moody..... | Carriage & Wagon Fact'y. |
| Manchester..... | Toler & Son..... | Furniture Factory. |
| Marion, near..... | Hull & Pugh..... | Ore Mining. |
| Marion, near..... | Wm. Meek..... | Ore Mining. |
| Martinsville..... | T. W. McCabe, Inc. | Foundry and Mach. Shop. |
| Max Meadows..... | Wythe L'd & Zinc Mine Co. | Additional Furnaces. |
| Milnes..... | Shenandoah Iron Co. | Foundry. |
| Mt. Athos..... | Redmond & Lerzer..... | Mining. |
| Nokesville..... | Mrs. Maria Keiwi..... | Flour Mill. |
| Norfolk..... | Norfolk Dock Improv't Co. | Ship Building, &c. |
| Norfolk..... | Peoples' Illuminating Co. | Gas or Electric Works. |
| Petersburg..... | Thomson-Houston Electric Light Co. | Electric Light Works. |
| Petersburg..... | Orr & Holt..... | Planing Mill. |
| Pleasant Valley..... | E. Sheffield..... | Mill. |
| Pulaski City..... | Pulaski Water Supply Co. | Water Works. |
| Pulaski City..... | Teany & Nicholson..... | Double Brick Works. |
| Raphine..... | James E. A. Gibbs..... | Double Corn Mill. |
| Reed Is. Furce..... | Reed Island Iron Co. | Iron Furnace. |
| Richmond..... | Vulcan Iron Co. | Rolling Mill. |
| Richmond..... | Va. & N. C. Wheel Co. | Coach Material Factory. |
| Richmond..... | Mfg. Co. | Coal Mining. |
| Richmond..... | W. J. Westwood..... | Additional Machinery. |
| Richmond..... | Chester Clay Mfg. Co. | Clay Works. |
| Richmond, nr..... | Jos. R. Anderson, Jr. | Keg Factory. |
| Roanoke..... | Roanoke Rolling Mill'g Co. | Rolling Mill. |
| Roanoke..... | Roanoke El. Lt. & Mfg. Co. | Electric Light. |
| Roanoke..... | Roanoke Cotton Mills. | Cotton Mill. |
| Roanoke..... | Roanoke Machine Works. | Additional Machinery. |
| Roanoke..... | Virginia Steel Co. | Steel, &c. |
| Rustburg..... | Willis J. Cannada..... | Canning Factory. |
| Rustburg..... | Wm. H. Ford..... | Bark Mill. |
| Salem..... | Tower..... | Iron Mining. |
| Salem, near..... | John Siler..... | Mining. |
| Scott County..... | Lyon Mfg. Co. | Manufacturing, &c. |
| Spring Hill..... | Witz & Holt..... | Stone Quarry. |
| Staunton..... | O. K. Lapham & Co. | Improved Flour Mill. |
| Staunton..... | E. H. Waynes..... | Dark Extract Works. |
| Suffolk..... | Suffolk Iron Works. | Machine Works. |
| Triford..... | Marks & Matthews..... | Ore Mining. |
| Troutville..... | Samuel Shaver..... | Canning Factory. |
| Vance..... | Sandy Riv. Mer. & Mfg. Co. | Tobacco Factory. |
| Virginia..... | Holston Steel & Iron Co. | Manufacturing, &c. |
| Virginia..... | Holston Mangan. & Iron Co. | Manufacturing, &c. |
| Virginia..... | Shenandoah Land & Anthracite Coal Co. | Mining, &c. |
| Virginia..... | Round Mountain Mining & Mfg. Co. | Manufacturing, &c. |
| Virginia..... | Blue Ridge Mineral Co. | Mining, &c. |
| Virginia..... | Ky., Va. & Tenn. Car & Mining Co. | Mining, &c. |
| Virginia..... | Va. & Tenn. Coal & Iron Co. | Manufacturing, &c. |
| Virginia..... | Pamunky Min. & Nav. Co. | Mining. |
| Virginia..... | Buck Horn Iron & Imp. Co. | Mining. |
| Virginia..... | Byrd Creek Iron Co. | Iron, &c. |
| Virginia..... | New South Min. & Imp. Co. | Mining. |
| Virginia..... | Rustin L'd, Min. & Mfg. Co. | Mining. |
| Virginia..... | Staley's Crk Man. & Iron Co. | Mining. |
| Virginia..... | Gold & Silver Mining Co. | Mining. |
| Virginia..... | Bristol Coal & Iron Co. | Mining. |
| Virginia..... | Salisbury Coal Mining & Mfg. Co. | Manufacturing, &c. |
| Warrenton..... | Bagley & Co. | Distillery. |
| Woodstock..... | J. I. Triplett..... | Flour Mill. |
| Wytheville..... | Wytheville Woolen Mills Co. | Woolen Mill. |
| Wytheville..... | Mayor & City Council. | Water Works. |
| Wytheville..... | Mayor & City Council. | Electric Light Works. |
| Wytheville..... | Virginia Mining Co. | Manufacturing, &c. |

WEST VIRGINIA.

| | | |
|----------------------|---|------------------------|
| Austen..... | Austen Coke Works..... | Coke Ovens. |
| Barnesville..... | Barnesville Mfg. Co. | Woolen Mill. |
| Bayard..... | James P. Rees..... | Coal Mining. |
| Bridgeport..... | Bridgeport Saw & Planing Mill Co. | Saw and Planing Mill. |
| Buckeye..... | W. H. McClintic..... | Flour Mill. |
| Caldwell..... | John T. Dixon..... | Saw Mill. |
| Caldwell..... | John Driscoll..... | Saw Mill. |
| Charleston..... | Wm. Phillips & Son. | Sash Factory. |
| Charleston..... | Kanawha Coal & Land Co. | Manufacturing, &c. |
| Charleston..... | Buffalo Creek Coal Co. | Coal Mining. |
| Charleston..... | Kanawha & Ohio R. R. Co. | Machine Shop. |
| Echo..... | Central Coal Co. | Mining and Coke Ovens. |
| Elizabeth..... | M. R. Louthier & Thorn. | Flour Mill. |
| Fairmont..... | J. E. Watson & Co. | Coke Ovens. |
| Fire Creek..... | Central Coal Co. | Coal Mining. |
| Fort Spring..... | Fort Spring Phosphate, Lime & Fertilizing Co. | Fertilizer Factory. |
| Guyandotte..... | Ohio River R. R. Co. | Machine Shops. |
| Hacker's Valley..... | Holly River Coal Co. | Coal Mining. |
| Hinton..... | Mayor & City Council. | Water Works. |
| Huntington..... | Newport News & Miss. Valley R. R. | Enlarged Shop. |
| Mason City..... | Hope Mfg. Co. | Salt Works. |
| Moundsville..... | Mound City Gas Co. | Oil and Gas. |
| Parkersburg..... | Consumers Coal & Mfg. Co. | Coal Mining. |
| Parkersburg..... | C. H. Shattuck and others. | Natural Gas and Oil. |
| Parkersburg..... | Camden Consolidat'd Oil Co. | Paraffine Works. |
| R. House Sho'ls..... | Shoals, Switzer & Christy. | Fire Clay. |
| Ritchie C. H..... | Wm. Morris..... | Saw Mill. |
| Ronoverte..... | John Driscoll & Dixon. | Saw Mill. |
| St. Albans..... | Potomac Lumber Co. | Lumber. |
| Second Creek..... | Patton & Goodwyn..... | Knit Goods Factory. |
| Terra Alta..... | J. W. Rigg & Son. | Woolen Mill. |
| Wheeling..... | Southern Nat. Gas & Oil Co. | Oil and Gas, &c. |
| Wheeling..... | La Belle Pottery Co. | Pottery Works. |
| Wheeling..... | Mound City Nat'l Gas Co. | Natural Gas. |
| Wheeling..... | J. N. Nance..... | Pipe Mill. |
| Winfield..... | S. B. Thompson..... | Fire Clay. |
| Wheeling..... | Standard Axle Co. | Axle Works. |
| Wheeling..... | Bessemer Limestone Co. | Lime Works. |
| Wheeling..... | Joseph Bell Stove Co. | Stove Foundry. |
| Wheeling..... | Automatic Packing Co. | Piston Packing. |

†Rebuilt or being rebuilt after being burned.

‡Companies or firms in existence prior to April 1, 1887, but since that time have either enlarged their works or built new works, or increased capital. In many of these cases given in this list, reference is made to entirely new works built by old firms.

Advantages of Tuskaloosa as a Point for the Manufacture of Iron and Coke.

TUSKALOOSA, ALA., June 25, 1887.

Editor Manufacturers' Record:

The advantages of this place for the manufacture of iron and coke can be very succinctly and convincingly stated. Tuskaloosa has all the raw materials for iron making as cheap and accessible as any place in the State. The Red mountain ores of Birmingham extend down the Alabama Great Southern Railroad, unbroken to within 17 miles of the town.

There is already developed on the lands of the Tuskaloosa Coal, Iron & Land Co., immediately on the line of the Alabama Great Southern Railroad, a vein of fine soft red ore 16 feet thick, which on a strictly business analysis of the entire face of the vein shows 47 per cent. of metallic iron and only 126 of phosphorus. In the immediate vicinity of this opening is a very large deposit of fine limestone assaying 95 per cent. pure carbonate of lime. Within 5 miles of town are large deposits of fine brown ore. On the Louisville & Nashville Mineral Railroad, which will unquestionably come into Tuskaloosa in a short time, the iron ore comes down unbroken from Birmingham to below Woodstock, or within about 20 miles in inexhaustible profusion both red and brown.

As to coke the situation is if possible even more favorable. According to the opinion of the best posted geologists, the famous Pratt vein, which is Birmingham's coke source, actually underlies the town. The general character of the coal of the country is set forth in the following extracts from the last report of State geologist:

"The coal measures of this county are believed to be thicker than in any other part of the Warrior field, or in any other field of the known world. * * * There are in these measures some fifty-three seams of coal, which vary in thickness from about two inches to fourteen feet, and which have an aggregate thickness of about 125 feet of pure coal. Of these, fifty-three coal seams, twenty-five are of workable thickness, or contain eighteen inches and over of pure coal. Of these twenty-five seams, fourteen have two feet six inches and over of coal; of these fourteen seams, nine have over four feet of coal; and of these nine seams, three have more than six feet in thickness of coal * * * Among these coals are to be found, seemingly, almost every variety of bituminous coal; some of them are bright and hard, and are well adapted to handling and stocking, while others are of a duller color and are of a friable and crumbly nature; some of them seem to be especially fitted for coking and blacksmithing purposes, while others might be called steam or heating coals, and others still, gas coals. * * * Much of this coal, however, stands weathering finely, for frequently around the old pits there are piles of lumpy coal that have been lying out in the weather for from thirty to forty years. * * * The Warrior coal field has inexhaustible quarries of the best of building and paving stones, and the greatest quantity of as fine timber as can be found anywhere.—State Geological Report for 1886, Tuskaloosa County.

The Tuskaloosa Coal, Iron & Land Co. owns lands all over the section referred to, and has already tested a thick vein only 8 miles from Tuskaloosa, with fine results producing a coke equal to any in the State. It also owns large bodies of land in the famous big and little basin region, which will furnish to Bessemer its coke, and whose coal has been fully tested by the Bessemer company.

In fact, so abundant are coking coals in the region that, considering the advantages which Tuskaloosa will possess for shipment, both by rail and by water, and the facilities which it will thus possess for supplying both the furnace demand of the North Alabama mineral district and foundry domestic, and general coke trade of Mobile, New Orleans, Texas, and when the isthmus is opened of the entire Pacific coast for general and especially for smelting use in the silver and gold money industries tributary to that coast, it seems evident that here is the proper point for the location of a Southern Connellsville for which the time is evidently ripe.

This question of a center of Southern coke supply is becoming a very important and stringent one. The furnace development of the section is so far in advance of the coke supply that there is already a very serious scarcity which will soon become a famine.

The connection which has hitherto existed in Alabama between iron making and coke making is a local and really an unnatural one. Coke making should be made a business to itself, and there does not exist a finer opportunity for the development of an immense industry than is offered at Tuskaloosa in the manufacture of coke.

All the materials for the manufacture of iron are thus to be had at Tuskaloosa as cheap and accessible as at Birmingham or any point in the State. In net addition to this it has the finest natural drainage, abundance of free water (this costs one of the Birmingham furnaces \$20 per day) and most important of all a water outlet for heavy freights.

No where in the world does there exist a first-class manufacturing city away from a navigable river. Universal experience has shown that as an actual avenue of transport or as a controller of competition a water outlet is necessary to a manufacturing point shipping heavy freights. Tuskaloosa has a river which is now open 8 months in the year, or a longer time than the Ohio from Pittsburgh to Cincinnati, which is under survey by the government to be opened all the year. This power affords all water transportation to the entire Atlantic and gulf coast of the United States, and, as soon as the isthmus is opened, to the Pacific coast. Iron can be carried to Mobile all down stream for 25 cents per ton. It can be carried to New York or Boston for \$2 from Mobile, in all say \$2.25. It costs now overland to these points much more than this amount. In addition, when the isthmus opens, the shipping of the world will pass through the gulf and ballast freights to all points will become common.

In a word, Tuskaloosa, with all other advantages enjoyed by any other place in the State and the addition of this water way, which renders her independent of all interstate commerce bills and railroad pooling is certainly superior to them in natural advantages for the manufacture of iron and coke and the mining of coal.

BEAR CITY, ARK.

In the Heart of a Great Undeveloped Mineral Country Where Gold and Silver are Found in Astonishing Quantities.

Something About the Mines, Bonanza Ores.

[Special correspondence MANUFACTURERS' RECORD.]

BEAR CITY, ARK., June 18, 1887.

Journeying in a southwesterly direction from the famous Hot Springs, of Arkansas, a distance of 16 miles, we find beautifully situated in a broad valley, surrounded by ranges of mountains and intersected by clear, cool mountain streams, the first mining camp of any importance, now a bustling, booming town, destined soon to be worthy of its more mature name—Bear City. Bear City is situated in Montgomery county and derives its name from Bear mountain, at whose base it lies. It was formerly known as Bear, but owing to its rapid growth and important situation in the heart of a mineral region whose vast hidden wealth is a wonder to those who have seen for themselves, it is now called Bear City. Bear City is only 27 miles from one of the main arteries of the Missouri Pacific Railroad system, and that company will, no doubt, soon extend a branch to this place and beyond when further developments shall justify them in doing so.

The population, including the mining camps immediately surrounding the town, consists at present of about 400 people, and a large daily influx of miners, business men and visitors who come to look on, but "who stay," will soon swell the number to several times these figures.

The town was platted out in February of this year, and was originally 20 acres. Since then three additions have been made and the town now covers an area of 150 acres, all nicely situated. Nearly one-half of the town lots have been sold to settlers and business men, and choice lots which 3 months ago sold for \$50 each, now readily bring \$300 or \$400. Over 100 buildings have been erected and others are being built as fast as lumber and building material can be had. The saw and planing mills for miles around are taxed to their utmost capacity and yet cannot begin to supply the demand for lumber, which is eagerly bought, wet and unseasoned, and used in constructing offices, hotels, stores, houses, etc., as a temporary preparation for the great boom near at hand.

BANKS.

The Miners' Exchange Bank is owned by Messrs. Barnes & Rogers, formerly of Kansas City, Mo., who, like many others, came to this place out of mere idle curiosity, but who, when they saw the vast possibilities of the location, gave up a pleasure trip to Florida, took off their coats and went to work, and much of the progress and development of the town is due to the enterprise and push of this energetic banking and real estate firm. They have a handsome office on one of the main streets, where they do a regular banking business, besides dealing in real estate, mining claims and mining stocks. Their office is a popular rendezvous for visitors and town people, who always find a hearty welcome and hospitable treatment.

MINING AND REAL ESTATE BROKERS.

Ish & Fischer are a live wide-awake firm who came here from the Black Hills, when the first rumors went abroad of rich discoveries of gold and silver. Being experienced miners and experts, they were not slow in discovering the value and extent of the mineral deposits, and here they settled, located and bought many valuable claims, mining stock and real estate; and they now have some of the choicest and most valuable property in the camp. Their elegantly fitted office has maps and drawings of all their properties, and cabinets contain

specimens of ores, with analysis and assays of each. Several saddle horses are kept for the accommodation of their visitors who wish to see mining claims and properties, and Messrs. Ish & Fischer always insist on a thorough investigation and examination of every foot of property handled by them. Any information about the mines, stocks, real estate or claims will be cheerfully furnished by them upon application.

F. D. Booth and Messrs. Suydam & Bentz own and control other valuable properties, and have been prime movers in the organization of mining companies. The activity displayed in their places of business would indicate that they have their hands full. Bear City boasts of 5 hotels and another, a large 3-story building, costing \$10,000, will soon be completed. There are 3 assayers' offices—that of the Lost Louisiana Co., Geo. E. Bent and A. M. Beam—all conducted by gentlemen of experience and reputation. Five general merchandise stores, 2 drug stores, 1 hardware store, 3 livery stables, 1 transfer company, 1 telephone company, 3

many new and valuable ores discovered and brought to light, which assay from \$8 per ton to several hundred. Some of these ores, more especially one known by the local name of "Golden Wonder," are free milling in character, while others will have to be treated by some smelting process peculiar to the character of the ore, which is more or less rebellious or refractory. Several tests have been made with various smelters resulting in different degrees of success, but it is yet to be demonstrated which class of smelter will be best adapted to treat the leading ores.

MOFFATT'S SMELTER.

With this end in view, Col. E. R. Moffatt, known as a former lead king, of Joplin, Mo., is now erecting large smelting plant at Crystal Springs, a few miles west of Bear City, at a cost of \$30,000, which is calculated to overcome all difficulties in smelting any ores found in this mining district. The peculiarity of Moffatt's smelter consists in having all vapors carried through a long flue to an immense chamber hung at the roof

VARIETY OF ORES.

The leading varieties of ores are known as Golden Wonder, Accident, Black Mud, Golden Seal, Mammoth, Lost Louisiana (Spanish lode), Black copper, etc.

"GOLDEN WONDER."

The Golden Wonder is a free-milling ore, being a fine grain novaculite quartz. It is found in layers with an almost slaty structure, blue-black in color and is full of minute seams of calcite at right angles to the planes of stratification, causing it to break up in triangular blocks. It is more easily worked than any other gold ore found here. The average of several hundred assays made by Professors Beam, Bent and Aughey show from \$40 to \$60 to the ton in gold and silver, the proportion of each being about one-half in value. Some of it contains scales of platinum combined with iron and a little antimony in spots. It is called "Golden Wonder" after the first location here where the ores were found. Golden Wonder veins are from 12 to 100 feet in width, and extend over 20 miles of country, which would give an almost inexhaustible supply of this ore.

ACCIDENT ORE.

In coloration this ore resembles golden wonder, not any harder, but without the novaculite and is more of the character of a fine grain quartz. The values in it are mostly silver and lead, with small quantities of gold, ranging from a trace to ½ oz. per ton; the per centage of lead ranging from 5 to 25 per cent. Much of the lead is in the form of wulfenite or molybdenum of lead. Some of the molybdenum contains small quantities of chromien. Many believe the silver contained in it is in the form of chloride, because it is known to contain chloride of mercury. This species of ore is a native of this State, for so far as is known, such specimens have never before been discovered elsewhere. Assays for silver (where assayers get any value at all) range from \$10 to \$160 to the ton. The veins run from 4 to 150 feet wide.

Some foreign assayers owing to their ignorance of the character of certain Arkansas ores and their inability to analyze or assay have pronounced them valueless, but good results are invariably obtained by reliable and experienced assayers, including the best government experts.

BLACK MUD.

Black Mud consists largely of silicates, carrying oxide of lead and organic matter. The proof consists in heating the dry mud in a glass tube (one end closed) to a degree of redness. Vapors are given off, composed largely of ammonia and cynogen.

In preparing for smelting this ore must have a preliminary roasting with access of air. Owing to the formation of cyanides in the ordinary process of assaying values are often lost, giving the impression that these ores are barren. Mr. Moffatt, however, in running 3 tons through his smelter at Joplin, Mo., obtained 1,600 pounds of pig lead. Scientific analyses and assays prove that these ores contain from 20 to 50 per cent. lead. The term "black mud" was given them because they were of that character and color; they are extremely soft and can be formed into round lumps like snowballs. In silver they range from 10 to 40 ounces to the ton.

These black mud veins run through the country in streaks from 10 to 200 feet wide, cropping out at the surface.

RUSTY QUARTZ.

Most of the other ores for which I have given local names come under this heading. They are found in great quantities, some partially decomposed and others comparatively solid. They range in color from yellow to reddish brown and black. Color is given them by oxides and peroxides of iron, oxides and dioxides of manganese and by ferro-manganese. These ores invariably carry gold (if anything) along with more or less silver, but principally gold.



VIEWS AT BEAR CITY, ARKANSAS.

blacksmith shops, 4 saloons and 5 saw mills (within a distance of 2 miles) complete the list of business enterprises other than mining.

MINERAL RESOURCES.

A partial mineral survey of the State of Arkansas was made by Prof. D. D. Owen in 1858, shortly before his death, and developed the fact that the State was rich in coal, lead, silver, iron, manganese and antimony. Prior to two years ago, native silver, galena, gray copper and other rich and well-known ores were the only kinds sought for. Now, more carefully conducted searches have revealed vast quantities of soft lead carbonate ores (familiarly known as black mud), which were formerly overlooked and considered worthless.

It was quite by accident that their real value was discovered by Prof. A. M. Beam, an assayer in the employ of the Bear Mountain Mining Co., who found lead in them, and by repeated tests silver and small quantities of gold were also discovered. Since that time the country surrounding Bear City has been prospected for miles around, and

with woolen bags, where the metallic vapors and carbon from the smoke are condensed and saved. In "cleaning up" the woolen bags are shaken out into immense funnels made of sheet iron, and precipitated to the floor beneath, where they are lighted with a match and the carbon burned out, and the lead melted into small spiral forms, which are then shoveled up and remelted into bars. The smelter was built by Mr. Moffatt to be used as a custom mill for all grades of smelting ores, including the black mud. Most of the ores are considered free smelting, but as this seemed to be a matter of doubt to many, capital has been waiting until this shall be proven by the successful operation of this large smelting plant that has cost so much time and pains, not to say considerable money.

But the Lost Louisiana Co., with the energy and push that has characterized it from the organization, being fully satisfied as to what the result will be, have purchased the Moffatt smelter and will push it to completion, and probably make a run inside of 30 days.

The assay on these ores range from \$10 to \$60 to the ton, over $\frac{1}{2}$ being gold. Occasionally some types of these ores like the mammoth lode carry lead.

These lodes exist in great numbers and range from 2 to 40 feet in width. Sometimes the various types of ores shade into each other and it is difficult to know how they should be classified.

THE LOST LOUISIANA.

Still another class of ores is known locally as the Lost Louisiana type. The gangue of this type is made up of about 80 per cent. of coarse novaculite quartz in layers, of a brownish and blue black color. The ore bodies of this type are what Von Cotta calls "banded veins;" the bands just described are interstratified with bands of coarse decomposed reddish brown sand rock, and also by thin streaks of red putty-like clay, carrying lead. The gangue also carries from 10 to 14 per cent. of iron and manganese. The lines of stratification and the minute fissures are very often filled with manganese in the form of "wad." There also occurs in these ores minute quantities of alaskaite and coronguite. Assays on the Lost Louisiana run from \$5 to \$450 to the ton, and an average of a large number gave \$132 in silver and \$20 in gold. A run of 60 pounds in the Electrical Metallurgical Works, of Denver, gave gold \$34, and silver \$14.70 to the ton, while a smelting run of 2 tons at Newport, Ky., gave \$56 per ton in gold and silver.

The first lode of this kind of ore opened in the camp was known as the Lost Louisiana. The shaft was put down in the old works made by the Spaniards 200 years ago, to a depth of 80 feet; at this depth a cross-cut of 220 feet has failed to reach any bounding walls. The appearance at the surface indicates that the ore body is at least 500 feet wide. This particular ore body has been traced to this point for a mile and one half. Other ore bodies of a similar character and size appear elsewhere in this camp, but have not been opened to the same extent as the Lost Louisiana mine.

THE LOST LOUISIANA COMPANY.

The legendary history of the mine of this company is very interesting and romantic. The story runs that at the time Spain ceded this district to France the Louisiana mine was in operation and producing bullion in such quantities as to render the mine the most famous of all the properties operated at the time, and when the mine was at last abandoned by the Spaniards it was so carefully concealed and covered up that diligent search, under the spur of a reward of \$500,000 offered about 50 years ago by New Orleans parties through the medium of the daily papers of that city, failed to reveal its whereabouts, and thus it passed out of existence, except as it lived in the recollection of those who had heard its story in former days.

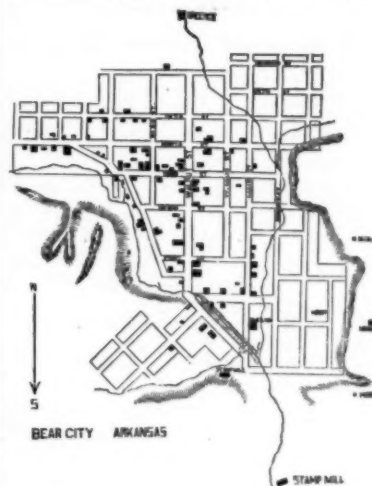
MODERN HISTORY.

The modern history of the Lost Louisiana mine contains much that is romantic, but nothing of romance. Space will not afford of full details. Suffice it to say that while the story of the Louisiana mine was passing into oblivion in Arkansas it had drifted to the North, and in Nebraska found sufficient credence with 14 venturesome spirits to induce them to send Bill Thompson, one of their number, an old California and Colorado miner, to search for the Eldorado of the Spaniards. He came armed with such descriptions of the property as he was able to obtain, and after many weeks of hardship and fruitless hunting, found himself one evening upon the edge of a most singular hollow that at once attracted his attention. He saw before him upon the side of the mountain a cavity or hollow measuring about 125 in length by 60 to 70 feet in width, and 45 to 50 feet in depth. Beyond and separate from it he found a smaller but somewhat similar depression in the ground, measuring 25x32 feet in size, and separated from the larger one by a wall of rock eight

feet thick. Both were filled with underbrush, and in the larger hollow he discovered four trees planted (we say planted advisedly) in an exact square, each tree different from the others, and two of them the only representatives of their kind within a radius of a mile, being trees whose habitat is the low lands of the marshes and river borders, but here growing upon the mountain side. Here he determined to search for the Lost Louisiana mine, and here he found it. Many months of discouragement were in store for him, during which he was repeatedly ordered home by his colleagues, but he stuck to his post, and by his persistent refusal to abandon the claim finally convinced his associates of the value of his discovery.

In October, 1885, the Lost Louisiana Mining Co. was organized under the laws of Nebraska, with a capital stock of \$5,000,000, in shares of \$10 each, all fully paid and non-assessable. Three million dollars of this stock were distributed among the original 14, who had borne the heat and burden of the day. The remaining \$2,000,000 were set aside as treasury stock.

The Lost Louisiana Mining Co. is officered ably and well by Orson Hager, president; George Buck, vice-president; John D. Fulton, secretary; J. G. Childs, treasurer. Its office is on the corner of Exchange and Court streets, Hot Springs, Ark. The mine, as well as the mill and proposed smelter, are under the personal supervision of Prof. Samuel Aughey, a geologist, mineralogist and metallurgist of over 30 years' experi-



ence, well-known in the mining regions of America. R. M. Luton & Co., No. 102 Court street, Hot Springs, Ark., are handling such portions of the treasury stock as the company has from time to time for sale, and are now offering a limited number of shares at the nominal price of \$2.50 per share.

This company are pushing their developments as fast as possible. A 10-stamp mill, with a capacity for 10 extra stamps is nearly completed, and will be ready for operation by July 1st. The Moffatt smelter bought by them will soon follow. Their tunnels are well tracked, and a fine steam hoisting plant and other equipments have enabled them to start up their mills with over 1,000 tons of ores to work on.

THE OZARK CO.

have 13 claims located $4\frac{1}{2}$ miles north of Bear City, which includes nearly all the leading varieties of ores heretofore described.

THE HARTFORD CO.

has 4 very valuable claims on the outskirts of the town, on which are found the Black Mud, Golden Wonder, Lost Louisiana, Golden Seal and Accident ores in large veins. The company is organized under the laws of Kansas, with its principal office at Wyandot, Kansas. It is one of the strongest and best companies in Bear City.

BEAR MOUNTAIN MINING CO.

with 10 claims located in and around Bear mountain, are said to have all the leading varieties of ore. Its claims are partially developed, and a little push and money would make its property very valuable.

AMERICAN MINING CO., OF ST. LOUIS.

This company, composed of St. Louis parties, own numerous claims near Bear City and at Sand Carbonate, (25 miles northeast of Bear) and have been opening up their claims and have a stamp mill on the way to their mines.

Besides these there are numerous other companies, and also private claims, not owned by companies, being worked by individual parties. Among the latter might be mentioned

REDFIELD CLAIMS, NOS. 1 AND 2,

owned by Messrs. Ish & Fischer, of Bear City, and St. Louis and Baltimore parties.

These claims have the largest showing of free-milling ores (Golden Wonder) in the district, croppings being over 1,000 feet in length and from 40 to 70 feet wide. No. 2 claim has a 40-foot shaft, exposing a very large body of Golden Wonder ore.

These claims are located four miles east of Bear City, near the Ouachita river, where splendid water-power is to be had sufficient to run many stamp mills. Messrs. Ish & Fischer will negotiate for the sale of a portion of these valuable claims to the right party with sufficient capital to assist in erecting a first-class plant for milling these ores, found in endless and paying quantities. Assays show from \$18.40 to \$84.30 to the ton. They are free-milling and contain no rebellious qualities.

ASSAYS AND VALUES.

The high assays given to Arkansas ores have caused outsiders to feel very skeptical and to discredit the reported values. Yet the reported values do exist, as numerous test runs, besides repeated assays, have shown.

Some allowance should, of course, be made for assays, which are usually obtained from a sample of select ore; but experienced mining men and experts all declare the country richer than any they have ever seen, and say "it would only need capital and development."

When the few mills now being erected are completed and bullion being run out, all doubt will have vanished and this section of Arkansas will experience an excitement second only to the days of '49.

Unlike most mining countries, Arkansas has a genial climate, with no snow or cold weather to impede work, which can be carried on the whole of the year in the open air.

With railroads almost intersecting the mineral belt and several now surveying to pass through it, capital should investigate (with the assistance of competent and experienced experts) and see for themselves (for "seeing is believing") instead of crediting conflicting rumors which can invariably be traced to parties who have never been on the ground or those who know nothing of mineralogy and mining.

CLARENCE P. DAY.

MINING NOTES.

By T. K. BRUNER, Raleigh, N. C.

CORUNDUM MINING.

There seems to be a growing demand for corundum. It is largely used, not only as an abrasive, but in the manufacture of many small articles, such as wheels for dentists, &c. It is also a profitable source of aluminum and is being largely mined with that view. This is the case in Georgia as well as in this State. North Carolina produces many colors and varieties of this mineral. Corundum is rhombohedral, generally with clearly defined cleavage, and is 9th in the scale of hardness, diamond being 10th. Its composition is oxygen 46.8; aluminum 53.2, which shows its value as a source of the latter. In this State may be found blue, gray, red, pink, brown, black, white and other colors or tints of corundum. Only occasionally is a piece

found of sufficient transparency and freedom from flaws to be used for gem purposes.

BUCK CREEK MINE.

The Buck creek mine in Clay county, is one of the most valuable deposits in the State. It was worked last season in a small way. Seventy tons of fine corundum were shipped, and more was taken out. The place was not systematically mined, but excavations were made on the face of the exposed outcrop, and the material shipped was taken from the surface. Plans are being perfected by which the mining will be conducted in a systematic way this summer. Mr. F. J. Menninger, of New York, has gone to Clay county for the purpose of looking after this property. He takes with him a large experience in this branch of mining, and has spent several years in the mountains of this State, devoting his time to the study of economical extraction of these minerals. He says that the outcrop occurs on the side of a hill and that operations this summer will be conducted by means of a tunnel driven into the hill on the ore body, which will develop the vein and afford stoping and sinking ground for as many miners as they care to employ.

This locality has supplied a few specimens of chatoyant crystals—cat's eye—though of pale color and inferior size.

MCDOWELL DIAMOND.

Col. H. C. Demming, of Harrisburg, Pa., kindly forwarded to the writer the diamond found not long since in McDowell county for inspection. He relates the following history of its discovery: "A little boy was playing at a spring on the property of Capt. Bright, about half a mile north-east of Dysortville. Noticing a sparkling object at the side of the spring he picked it up thinking it was a piece of crystal. Being rather pretty he concluded to keep it. It so happened that his father saw it, and he thought that it more than an ordinary stone; whereupon it was shown to several parties in the neighborhood, including a Mr. Galt, who a number of years ago was at the diamond mines of Africa. Mr. Galt offered the father of the boy 5 or 10 cents, for it, and upon the father refusing he immediately offered \$5. The father suspected the stone had more value than he had before believed, and concluded to allow others to see it. It was finally shown to me and I pronounced it a diamond. Having taken steps to secure the property, after looking around the locality where the diamond had been found. I gave the father \$75 to be handed to the lad who picked it up. I am informed that it has been sent to Messrs. Tiffany & Co., of New York, and pronounced by them to be a diamond of considerable value. I have shown it to several experts, including Dr. F. A. Genth, Dr. Leidlich, of Philadelphia; Col. Davidson, Philadelphia diamond dealer; J. A. Smith, Geologist of Colorado, and other experts, and they all agree that it is a pretty fair diamond. He says further: "I have no doubt that numerous diamonds exist in the locality; and I also believe that we will find a large number on the grounds of the Marion Bullion Co. proper, particularly since the place has been visited by one or two diamond experts. In fact, we have found quantities of sand already in which diamonds are plainly discernable through a microscope of low power."

The stone is a dodecahedron, slightly lengthened vertically, and has a pale tint of yellow, approaching citrine, but not so deep. It weighs 4.392 carats, and its specific gravity is approximately, 3.627; both weights were taken in the laboratory of the Department of Agriculture.

Prof. Kunz, the expert mineralogist for Messrs. Tiffany & Co., will be in this State in a few days. He comes to search in certain localities for some rare specimens of mineral, and to become familiar with prominent localities already well known.

If you wish to keep posted on the progress of the South, read the MANUFACTURERS' RECORD. Price \$3.00 a year.

Bristol's Bright Prospects.

[Special correspondence MANUFACTURERS' RECORD.]

BRISTOL, TENN., June 22, 1887.

I have recently visited some thirty-five or forty of the larger deposits of the magnetic iron ore veins, and have found and examined veins that are miles in length and varying from fifteen to two hundred feet wide. I brought several samples home with me, which I handed to Mr. R. C. Cook, of New York, who proposed to send them to Dr. H. A. Mott, of his city, for analysis, and Mr. Cook has kindly handed me a copy of Dr. Mott's investigations. The result shows from 59 per cent. to 65.60 per cent. metallic iron with only traces of phosphorus. These are evidently steel making ores, and from the quantity in sight and the indications as to extent, I do not hesitate to say that in my judgment there is in these veins the greatest amount of magnetic iron ore to be found on this continent. This, together with the enormous quantity of brown manganiferous and red hematite iron and some specular ores, will give Bristol a large advantage over any point in the South for extensive iron and steel manufactories, as we have coal of the best order for coking, which is only 3 per cent. of ash, and, being situated as Bristol is at a great distributing center with all the natural facilities at hand for making good and cheap iron, competition will not affect a manufactory so situated, as one might defy the world to produce better or cheaper iron than can be produced at Bristol with the means at hand. The South Atlantic & Ohio Railroad is now under construction, pushing northward, there to join hands at Big Stone Gap, on the Cumberland mountains, with the Louisville & Nashville Road. This South Atlantic Road as we ride northward from Bristol threads itself through meadows teeming with fertility, across rivers whose powers when utilized would whirl a thousand water-wheels, through unbroken virgin forests waiting for the woodman's axe. On, on the iron horse drives until it strikes great coal fields along the Cumberland mountains, where sleep in mother earth millions of tons of the finest coking coal. Reports have been made from time to time upon these vast beds by experts, such as Prof. Stevenson, of New York, Proctor, of Kentucky, and McCreath, of Pennsylvania, and many others, all agreeing in their analyses as a coal richer in fixed carbon and with less ash and sulphur than the celebrated Connellsville coal of Pennsylvania. These beds lie above water level, are easily mined and worked, and are by far the most extensive and valuable coal beds for making pig iron and steel, as well as for steam purposes, that our country can yet boast of. Fifty miles southwest lies Cranberry, a mine that Birmingham and Chattanooga iron masters seek and draw their ore from to be mixed with their hematites, thus producing a Bessemer ore. Cranberry with its estimated tonnage of thirty millions of ore is but a mole hill as compared with the magnetic veins spoken of in the former part of this letter. This section of country has barely entered upon the threshold of the glorious future that awaits it. The next few years will witness a development of its material interests that will surprise the most sanguine. Capitalists with immense wealth at their command recognizing the existing possibilities and the future that lies in store will readily invest here in railroads, furnaces and mills.

A. A. HOBSON.

Enlarging Hotel.

WILMINGTON, N. C., June 27, 1887.

Editor Manufacturers' Record:

The addition to my hotel is commenced; that is, the foundation; the contract for the upper part has not been given out. The addition is to be 74x150 feet, 5 stories high, including basement. All modern appliances will be used; passenger elevator, &c.

W. A. BRYAN.

Building a Planing Mill.

SANDERSVILLE, GA., June 20, 1887.

Editor Manufacturers' Record:

I have opened a lumber yard and am building a planing mill. I expect to set up a planer and molder, scroll saw and a wood turning lathe, and add other machinery as the business increases. Expect to get to running in about two weeks or the 1st of July. Am putting up building now and some of the machinery is on the ground. Have not bought all that I want yet. Will run a 20 horse-power engine.

S. L. PARSONS.

Will Rebuild Factory.

PARIS, TENN., June 17, 1887.

Editor Manufacturers' Record:

Our cotton gin and heading factory burned on the 10th. Will rebuild factory with increased capacity and be ready for business again in about 60 days.

DOBBINS & PARKER.

COLUMBIA, TENN., June 20, 1887.

Editor Manufacturers' Record:

Messrs. Cason & Seavy, sole owners and proprietors of the Seaton patent spring double and single tree, will soon have a factory in this town in connection with Craig & Wilkins machine shop, for the purpose of manufacturing the spring double and single tree on a large scale. C.

SYLACAUGA, ALA., June 22, 1887.

Editor Manufacturers' Record:

We have put up brick machinery at this place and have our machine in operation. We have on hand some 60,000 or 70,000 brick. We also operate saw mill near here.

JAMES A. KNIGHT & SON.

Roller Flour Mill.

BOWIE, TEXAS, June 18, 1887.

Editor Manufacturers' Record:

A joint stock company has been formed for the purpose of erecting a roller mill, with a 75 barrel capacity. R. H. Wood, president. Mill will be erected at once.

D. C. ALLEN.

Will Start Fire-Brick Works.

TORONTO, OHIO, June 27, 1887.

Editor Manufacturers' Record:

It is my intention to start fire-brick works at Cleveland, Tenn., as soon as I can settle my business here. GEO. CARLYLE.

BIRMINGHAM, ALA., June 27, 1887.

Editor Manufacturers' Record:

The Gate City Lumber Co. is now being organized and the plant will be at once put in operation at Gate City. It will not be removed to Decatur. W. H. BRANNON,

per W.

Enlarging Ice Factory.

MACON, GA., June 25, 1887.

Editor Manufacturers' Record:

We are increasing our works by adding a 15-ton machine. The total outlay for improvement is \$20,000.

CENTRAL CITY ICE CO.

MARLIN, TEXAS, June 22, 1887.

Editor Manufacturers' Record:

\$1,000 has been raised to bore an artesian well at this place. Operations have not commenced yet. T. C. ALTORF.

GRIFFIN, GA., June 24, 1887.

Editor Manufacturers' Record:

A large ginney is being erected by M. L. and W. A. Bates in this place.

M. O. BOWDOIN.

Proposals for Water Tower Wanted.

THOMASVILLE, GA., June 24, 1887.

Editor Manufacturers' Record:

We are going to erect a water tower and tank brick tower 70 feet high, with an iron tank 25 by 30 feet on top. After this is completed we will lay water pipes over a portion of our town. We are advertising for bids now on tower and tank.

C. H. WILLIAMS.

Arkansas Mining News.

BEAR, ARK., June 24, 1887.

Editor Manufacturers' Record:

The Kirkwood Mining Co. was organized by F. D. Booth, leading druggist at Bear City, and is composed of pushing young men from Kirkwood, Mo. They secured the services of a Colorado mining expert and were among the first to locate and secure claims. They have some 40 claims, which are now being developed with a view of putting them on the market. Assays made on the above show large values in gold. Mr. C. C. Woods has charge of the development and Mr. F. D. Booth is local manager of the company at Bear City, Ark., to whom all communications should be addressed. There are over 3,000 mining claims recorded in the Bear Mountain mining district and 300 deeds on record. This will give some idea of the vast area of mineral territory around Bear City.

Will Rebuild Glass Works.

ATLANTA, GA., June 24, 1887.

Editor Manufacturers' Record:

We expect to begin rebuilding next Monday morning, and by August 15 expect to be able to put out glassware. The fire was unfortunate, to say the least of it, but we are not downed yet, nor do we expect to be.

ATLANTA GLASS CO.

Saw Mill Rebuilt.

CEDARTOWN, GA., June 25, 1887.

Editor Manufacturers' Record:

Our saw mill was burned a short time ago. We have rebuilt our works and will commence work again to-day.

SIMS & AUCHMUTY.

FORT WORTH, TEXAS, June 20, 1887.

Editor Manufacturers' Record:

The Spanish Moss Manufacturing Co., of Fort Worth, have organized and elected officers for one year.

F. P. MOON, Manager.

Will Start Canning Factory.

NEWTON, N. C., June 21, 1887.

Editor Manufacturers' Record:

A canning factory will be started soon by Yount & Shrum.

W. B. GAITHER.

Hosiery Factory.

SPRING PARK, FLA., June 16, 1887.

Editor Manufacturers' Record:

Our principal object in coming here was health, but have decided to manufacture hosiery. At present can turn out about 100 dozen men's seamless hose per week, but if we meet with encouragement and success will enlarge and manufacture children's and women's hose in connection with the goods we are now making.

N. BOGIE.

WILLIAMSBURG, KY., June 21, 1887.

Editor Manufacturers' Record:

This place is in sad need of stove factory, hub and spoke factory and bent wood factory. We have an abundance of the finest hickory, oak and ash and no manufactory to use it. The timber could be bought very low. Fine shipping facilities. Will give information.

GEORGE STRANGE.

A Barrel Factory.

HAWKINSVILLE, GA., June 22, 1887.

Editor Manufacturers' Record:

We have completed our barrel factory for the present, but all the time adding to our capacity, which now is 200 hand-finished barrels a day. Cannot fill our orders.

PARKER, PEACOCK & CO.

Extending Street Railroad.

PARIS, TEXAS, June 20, 1887.

Editor Manufacturers' Record:

We will build three miles of street railroad. It will be extensions of our present system. All material has been bought. The iron is past due. We will have the track down in 30 days after we get the iron.

PARIS RAILWAY CO.

HAGERSTOWN, MD., June 24, 1887.

Editor Manufacturers' Record:

Our old town seems to be awakening out of its lethargy, and we have now a number of enterprises being agitated, but so far a silk ribbon factory is the only one that has taken a business shape, and now is an assured fact, as stock is being freely taken.

M. L. FUNKHOUSER & CO.

BILOXI, MISS., June 20, 1887.

Editor Manufacturers' Record:

I have been getting business shaped up and the lumber, &c., here for my packing house, pier, &c. I have a fine water-front on the gulf of 400 feet by 600 feet deep, besides a fine planting ground of one and a half miles square, on which I am planting oysters, and through which the Louisville & Nashville Railroad to New Orleans runs, and it is what is not usually seen in this country—a palace car train going through an extensive oyster bed. H. W. HITCHCOCK.

GRANBURY, TEXAS, June 21, 1887.

Editor Manufacturers' Record:

We want an enterprising man to put a roller mill in operation at once. We have a three-story stone building, 60 horse-power boiler and 50 horse-power engine, with three run of stone. Only steam mill in the county. Fine grain country, with abundance of water.

BALLARD & MULLINS.

ANNISTON, ALA., June 22, 1887.

Editor Manufacturers' Record:

J. M. Anderson contemplates starting a quilt factory this fall in connection with a mattress factory he already has in successful operation.

W. D. SNOW.

FREDERICK, MD., June 20, 1887.

Editor Manufacturers' Record:

I started a cigar factory on June 1st.

D. O. THOMAS.

Water Works.

MECHANICSTOWN, MD., June 23, 1887.

Editor Manufacturers' Record:

We will build our own works.

MECHANICSTOWN WATER CO.

Ice Machinery Wanted.

PALMA SOLA, FLA., June 20, 1887.

Editor Manufacturers' Record:

The ice factory is to be built by me. Machine not yet selected. I want to correspond with makers of ice machinery.

W. S. WARNER.

To Manufacture Brick.

LAURENS, S. C., June 22, 1887.

Editor Manufacturers' Record:

A company has been organized at this place, with a capital stock of \$5,000 to make brick, with the view to putting up a cotton factory. They will commence work in a short time.

A. H. MARTIN.

CONSTRUCTION DEPARTMENT

WE PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

ALABAMA.

Anniston.—McCraw & Co. have purchased machinery to manufacture galvanized iron work, &c.

Anniston.—The Second Baptist Church have secured a site for their \$20,000 church, previously reported.

Anniston.—Col. John M. McKleroy will build a costly residence.

Anniston.—It is reported that the Anniston City Land Co. is preparing to build a street railroad.

Anniston.—J. M. Anderson contemplates starting a quilt factory this fall.

Avondale.—The Avondale Stove & Foundry Co. will improve their plant.

Auburn.—The State Agricultural and Mechanical College, reported in this issue as burned, will be rebuilt.

Bessemer.—The East Tennessee, Virginia & Georgia Railroad Co. (office, Knoxville, Tenn.) are making the surveys for a branch railroad from Briarfield to Bessemer. It is to be extended to Mobile, and will be known as the Mobile & Bessemer Railroad.

Bessemer.—Messrs. Gere, Hughes and Sharpley have leased 10 acres of land to start brick works. Have purchased machinery.

Birmingham.—E. Sidel will receive proposals until July 15 for erecting the superstructure of a large building for Josiah Morris.

Birmingham.—James H. Hood, Edgar C. Wingfield, L. M. Wood, James E. Long and J. L. Johnson have incorporated the Woodlawn Land & Improvement Co., capital stock \$50,000.

Birmingham.—H. T. Beggs & Son are repairing their foundry and enlarging their saw and planing mill.

Birmingham.—M. J. Hatcher, of Columbus, Ga., W. D. Hill, C. D. Sisson and J. B. Hill have incorporated the Hatcher Ironware Co., capital stock \$100,000.

Birmingham.—The Birmingham Natural Gas & Fuel Co., previously reported, will sink a well 3,000 feet if gas is not found nearer the surface. If not successful in finding natural gas, the company will build extensive gas works.

Birmingham.—A stock company will be organized to manufacture water gas by the Sloper process.

Birmingham.—The Gate City Lumber Co. write us that they do not contemplate moving their plant to Decatur, as stated last week. Their plant will be located at Gate City.

Decatur.—H. H. McCreary, J. M. McCreary and M. E. Siddons have bought a site to build a planing mill.

Decatur.—The United States Rolling Stock Co., of New York, will, we are informed, move their car works from Urbana, Ohio, to Decatur.

Florence.—G. W. Schwartz has received the contract to erect a cotton compress at \$21,000.

Florence.—H. W. Russell, of Chattanooga, Tenn., contemplate erecting a wood-ware factory.

Florence.—Hugh Bleakly, representing the American Water Work & Guarantee Co., of Pittsburgh, Pa., is negotiating for the building of water works.

Fort Payne.—The Fort Payne Land & Improvement Co., capital stock \$5,000,000, has been organized with John Kelly, of Leavenworth, Kans.; S. F. Scott, Kansas City, Mo., John B. Bodie, of Birmingham, and others as directors. The company have secured about 36,000 acres of mineral and other lands at and near Fort Payne which they will develop. Will engage in mining and manufacturing.

Jacksonville.—It is rumored that Fred Fitch has organized a company to build an iron furnace.

Jemison.—F. M. Hunt & Bro. are building a saw mill 2 miles from Jemison.

Jonesboro.—Prevo & Highland have erected a lumber mill.

Mobile.—The Seaboard Manufacturing Co. are building a logging railroad.

Mobile.—The Mobile & Navy Cove Harbor Co., previously reported, will receive bids for 7½ miles of piling.

Mobile.—F. W. King has contracted to build 2 sections of the Mobile & Dauphin Island Railroad, reported last week.

Mobile.—J. Laurendine and W. Hieronymous have received the contract to furnish cross ties for the Mobile & Dauphin Island Railroad, reported last week.

Montgomery.—The capital stock of the Florida & Gulf Land Co., lately reported as organized with W. N. Reeves, of Eufaula, as president, is \$1,500,000.

Montgomery.—Thomas H. Carr will erect a new building for his cracker factory.

Montgomery.—The Hoeve Warrior & Jefferson County Coal Co. have organized with Ignatius Pollak as president, and P. F. H. Hoeve, secretary and treasurer. The company own 3,000 acres of coal lands.

Montgomery.—The Montgomery Advertiser has commenced work on a two-story building, 50x50 feet, and will put in a new press, &c.

Montgomery.—It is stated that work will soon begin on the large brewery previously reported to be erected. S. B. Uhlfelder can give particulars.

Prattville.—Thorn & Goree, of Montgomery, have received the contract to rebuild the Prattville Cotton Factory at \$15,000.

Ragland.—A. G. West, of Cedartown, Ga., has, it is stated, purchased the plant of the Coosa Coal & Coke Co.

Sylacauga.—James A. Knight & Son have lately started a brick yard.

Talladega.—Ransom, Williams & Co. have received the contract to build the State Blind Institution at \$18,520.

Talladega.—The Talladega Land & Improvement Co. are negotiating for the establishment of a nail factory with a daily capacity of 100 kegs.

Talladega.—A company has been incorporated to build the street railroad previously reported. The Talladega Land & Improvement Co. can give information.

Talladega.—A sash, door and blind factory, and an axe handle and spoke factory are reported to be erected. If true, the Talladega Land & Improvement Co. can give particulars.

Talladega.—The Talladega Land & Improvement Co., previously reported, will shortly contract for their iron furnace.

Tuskaloosa.—A steam laundry will be erected at the Tuskaloosa University.

Tuskaloosa.—The Graystone Land Co. has been organized to develop mineral lands. T. N. Hays is president; E. N. C. Snow, secretary, and G. A. Searcy, treasurer.

Tuskaloosa.—H. Blake, representing the American Water Works & Guarantee Co., of Pittsburgh, Pa., is prospecting with a view to building water works.

Tuskaloosa.—A \$100,000 stock company is being organized to build a hotel.

Wetumpka.—W. E. Cole will probably build a lumber mill.

ARKANSAS.

Antimony City.—The United States Antimony Co., of Philadelphia, Pa., contemplate erecting the paint works, lately reported. They also contemplate building other factories.

Fordyce.—Acuman & Pool have added new machinery to their woolen mill.

Fordyce.—A saw mill will probably be erected.

Helena.—It is reported that another compress will probably be erected.

Little Rock.—The Chicago, Kansas & Arkansas Railway Co. has been chartered at Topeka, Kansas, to build three lines of railroad. One is to be built to Little Rock.

Morrilton.—G. W. Griffin and others are organizing a company to develop coal and iron ore lands.

Mount Ida.—T. B. Farmer, W. M. Boyles and S. A. Friend, of Bear, will develop mines.

Pine Bluff.—Samuel Franklin and George Slight have started a machine shop.

FLORIDA.

Daytona.—J. A. Clement & Co. have erected a new saw mill.

Fernandina.—Williams & Swann have sold 25,000 acres of land in Levy county to Chicago parties, who will establish large saw mills, etc.

Jacksonville.—George R. Foster will rebuild his burned building. The loss was \$16,000.

Jacksonville.—The county commissioners are having plans prepared for a new jail.

Jacksonville.—The Park Opera House Co., recently reported as to rebuild their burned opera house, have decided to erect a 3-story building at a cost of about \$25,000. Bids will shortly be invited.

Kissimmee.—Edward Page, Oliver W. Meade, John H. Dawe, Moses Dore, John F. Cogswell and others have incorporated the Central Railway & Steamship Co., to build a railroad from Kissimmee to Punta Rassa, with a branch to some point on the Atlantic coast.

Kissimmee.—The Osceola Sugar Co., lately reported as incorporated, have bought the Rio Grande Sugar Mills & Refinery, at Rio Grande, N. J., and will move them to Florida. Its capacity is about 30 or 35 tons daily. R. E. Rose, of Kissimmee, and Hamilton Disston, of Philadelphia, Pa., are interested in the company.

McClenny.—C. B. McClenny is erecting a gin.

Mt. Dora.—J. Staplebuilder, of Paola, will build a \$30,000 hotel.

Orlando.—F. B. Pickering, representing the Western Electric Light Co., is negotiating for the erection of an electric light plant.

Palatka.—The Jacksonville, Tampa & Key West Railroad Co., (office, Jacksonville,) will build a \$30,000 union depot.

Palatka.—A company is being organized to build a street railroad.

Palma Sola.—W. S. Warner will build the ice factory lately reported. He wants

to correspond with manufacturers of ice machinery.

Sorrento.—Hodges & Clark have received the contract to grade the Alabama, Florida & Atlantic Railroad from Indian Springs to Clay Springs.

Windsor.—The incorporators of the Windsor, Lake Newnan & Prairie Creek Street Car, Canal & Navigation Co., reported last week as chartered, are J. Lawrence Kelley, J. A. Roseborough and G. W. Kelley.

GEORGIA.

Albany.—A company will be chartered to build the street railroad and water-works lately reported. J. G. Stephens can give information.

Albany.—The Taylor Cotton Press Co., of Savannah, have sold one of their compresses to parties who will move it to Albany.

Americus.—W. A. Jeter, of Brunswick, will make a proposition to build water works. He contemplates erecting gas works.

Atlanta.—The Atlanta Glass Co. will rebuild their works, reported last week as burned.

Atlanta.—The Gentlemen's Driving Park Association will build a club house.

Atlanta.—The Spelman Institute, burned last week, will be rebuilt. The loss was \$12,000.

Atlanta.—The Atlanta Talc & Soapstone Mining & Manufacturing Co. have reorganized with C. A. Collier as president; Jacob Haas, vice-president; J. P. Tolleson, secretary, and E. S. McCannless, treasurer. Arrangements are being made to move their talc mill at Atlanta to their mines along the Marietta & North Georgia Railroad. Fifty thousand dollars will be spent in making improvements.

Atlanta.—The Alabama Midland Railroad Co. will be chartered to build a railroad from Montgomery, Ala., to Bainbridge, Ga., 175 miles.

Augusta.—The Augusta Factory (cotton) are putting in new water wheels.

Augusta.—It is proposed to organize a company to build a cotton mill of 30,000 spindles capacity, seven miles from Augusta. W. T. Gary can probably give information.

Augusta.—Bills will be introduced in the legislature at Atlanta to charter the Augusta, Thomasville & Gulf Railroad Co. and the Augusta, Gibson & Sandersville Railroad Co.

Bartow.—W. C. Smith contemplates erecting a soap factory.

Brunswick.—The Baptists will build a church to cost about \$15,000.

Columbus.—James Smith and others will receive bids for building a 10-room school-house until July 10.

Cuthbert.—J. C. Martin will erect an iron front warehouse.

Macon.—The South Macon Baptist Church have purchased a site to build a new church.

Macon.—Jesse W. Starr, of Philadelphia, Pa., reported last week as to build gas works, has, with H. Horne, T. J. Carling and S. Weichselbaum, of Macon, incorporated the Consumers' Gas Light Co., capital stock \$125,000.

Macon.—A Cincinnati (Ohio) party is purchasing machinery to erect a steam laundry.

Macon.—A bill will be introduced in the legislature at Atlanta to incorporate the Central City Water Works Co.

Macon.—The ice machinery, reported last week as to be erected by A. Ellis, of Columbus, and others, is for the Central City Ice Works, who are to increase their daily capacity 15 tons.

Rome.—A large hotel is reported to be built.

Rome.—It is rumored that negotiations are pending for the erection of large works to manufacture bridges, &c. If true, the Rome Land Co. can give information.

Savannah.—The Commercial Guano Co., reported last week, have purchased a site and will build large works at once. Their capital stock will, it is said, be doubled.

Savannah.—The Tybee cotton compress has, it is stated, been sold to New York parties, who will move it to Albany.

Tate.—The Georgia Marble Co., previously reported as to add 24 gangs of saws, have purchased the machinery, also new engine, boilers, &c.

Washington.—A bill will be introduced in the legislature at Atlanta to authorize Washington to issue \$10,000 of bonds to build water works.

KENTUCKY.

Grant's Lick.—Several citizens will bore for natural gas.

Kentucky.—The Louisville, Cincinnati & Virginia Railroad Co., chartered three years ago to build a railroad from Winchester to the Virginia State line, has been organized in New York, with W. D. Hill and E. F. Hunt, of Birmingham, Ala., and others as directors.

Louisville.—L. Richardson, C. C. Richardson and Charles A. Lehmann have chartered the Louisville Lithograph Co., capital stock \$20,000.

Louisville.—B. F. Avery & Sons have bought the large plow works of Meikle & Co.

Louisville.—John H. Wrampelmuier, S. E. Duncan, F. William Vogt, C. George and J. B. Masson have chartered the Louisville Silvering & Beveling Co., capital stock \$4,000. Its object is to manufacture mirrors, bevel plate glass, &c.

Louisville.—The Commercial Club, reported last week as to erect a large building, will incorporate as the Commercial Club Building Co., with a capital stock of \$250,000. They propose to erect an eight or ten-story building to cost about \$225,000.

Ludlow.—Oliver Kinsey, E. V. Cherry and Isaac Kinsey have incorporated the National Electric Headlight Co., capital stock \$650,000. Its object is to manufacture steam engines, electrical apparatus, &c.

Newport.—J. S. Carr, T. D. Carr, W. C. Leeds, W. T. Shera and C. Beckham have incorporated the J. S. Carr Co., capital stock \$25,000, to mine coal.

Newport.—A company has been organized to build a street railroad.

LOUISIANA.

Alexandria.—The Louisiana & Arkansas Railroad Co. have contracted to build their machine shops at Alexandria.

Donaldsonville.—Proposals for building the courthouse, referred to last week, will be received until July 18 by R. T. Hanson.

New Orleans.—William G. Wheeler, William B. Leonard and others have incorporated the New Orleans Art Pottery Co., capital stock \$1,000.

New Orleans.—The Felicity Street Church, recently burned, is to be rebuilt. Williams & Patton are preparing plans.

New Orleans.—The Sterns Fertilizer & Chemical Manufacturing Co. has been reorganized as the Standard Guano & Chemical Manufacturing Co. The capital stock has been increased from \$175,000 to \$200,000. C. M. Soria is president, and John S. Rainey, vice-president.

MARYLAND.

Baltimore.—Philip Walsh & Sons have the contract to erect a 2-story school house on the York road, to cost \$14,000.

Baltimore.—Henry J. Thurmman has received the contract to build 52 houses at Curtis Bay for the South Baltimore Harbor & Improvement Co. They will cost \$45,000.

Baltimore.—James T. Parks, John Mauldin, Matthew P. Hubbard, Robert H. Shipley and James L. Mauldin have incorporated the Parks Guano Co., capital stock \$100,000.

Baltimore.—Clark Y. Davidson and others have incorporated the Farmers & Merchants Land Investment Co., capital stock \$100,000.

Baltimore.—James L. Layfield will receive the contract to erect a school building on South Caroline street, at \$16,687.

Baltimore.—A. Fenneman will erect a 25-horse-power boiler and engine at Ransteads' wharf.

Castleton.—The Greenstone Serpentine Co. have opened a new quarry.

Catonsville.—It is reported that the Catonsville Water Co., chartered last year, will soon begin work on a plant.

Hagerstown.—A company is being formed to start a silk ribbon factory. W. L. Funkhouser can give information.

Knoxville.—H. T. Deaver, I. N. Merchant and others have formed a company to build a creamery.

Towson.—The Maryland Central Railroad Co. (office, Baltimore,) will build an iron bridge across the York road. Work has been commenced.

Washington, D. C.—M. E. Bell, supervising architect of the United States treasury, will receive proposals until July 25 for furnishing iron stairs for the new post-office at Baltimore.

MISSISSIPPI.

Aberdeen.—Condon Bros., of Nashville, Tenn., have received the contract to grade the 10½-mile branch of the Kansas City, Memphis & Birmingham Railroad. Armstrong & Co., of Birmingham, Ala., have the contract to furnish ties.

Duck Hill.—The Mississippi Mineral & Mining Co. are testing their clay with a view to starting fire-brick and tile works.

NORTH CAROLINA.

Asheville.—Mr. Collins will erect an ice factory. Has purchased a site.

Asheville.—A planing mill and wood-working factory and a large flouring mill are to be built soon. The mayor can probably give information.

Charlotte.—Hood & Lindy will probably establish an iron foundry.

Elizabeth City.—G. B. Thompson has added some new machinery to his brick yard.

Hamilton.—Mr. Hitch has lately erected a large lumber mill.

Makeyleville.—H. D. Spear will rebuild his saw mill reported last week as burned. The daily capacity will be 20 M feet.

Mount Holly.—A machine shop is being erected.

Pamlico.—Felix Cherry is erecting a grist mill.

Raleigh.—P. M. Wilson, C. M. Hawkins and B. A. German have incorporated the Raleigh Manufacturing Co., capital stock \$6,000, to succeed the Pioneer Manufacturing Co.

Randleman.—It is reported that the Randleman Manufacturing Co. have bought 100 additional looms.

Waynesville.—A furniture factory is reported to be erected. W. T. Lee can probably give information, if correct.

Windsor.—Theodore Ralph, of Edenton, has received the contract to build a courthouse.

SOUTH CAROLINA.

Fort Mill.—The capital stock of the Fort Mill Manufacturing Co., reported last week, is \$160,000. Samuel E. White is president; J. L. Watson, vice-president; John M. Spratt, secretary and treasurer.

Greenville.—Northern parties will furnish \$500,000 to build a large cotton mill with a capacity of 20,000 or 30,000 spindles. A site has been selected. H. P. Hammett will be president of the mills.

Rock Hill.—A two-story building, 24x60 feet, will be erected for the Rock Hill Savings Bank.

Sumter.—The Sumter Cotton Mills are thinking of putting in an electric light plant this fall.

Walterborough.—Fletcher Mims has, it is stated, lately built a saw mill.

Winnsboro.—The Wadesboro (N. C.) & Winnsboro Railroad Co. will be chartered. G. H. McMaster can give information.

TENNESSEE.

Athens.—It is rumored that negotiations are being made for the building of an iron furnace. If correct, the Athens Mining & Manufacturing Co. can give particulars.

Chattanooga.—J. A. Hodge, of Chattanooga; J. Conyers, of Atlanta, Ga., and George Park, of Cleveland, are establishing brick works.

Chattanooga.—It is reported that Atlanta (Ga.) parties will build a planing mill. Lindsay & Hoyt can give particulars, if true.

Chattanooga.—C. V. Brown, H. T. Olmstead, Theodore Richmond, T. G. Montague and C. D. Clarke have incorporated the Southern Land Co.

Chattanooga.—The Tennessee River & Waldens Ridge Railway Co. has been incorporated to build a dummy railroad by S. J. A. Frazier, Samuel R. Read, E. M. Dodson, P. D. Sims and John D. Griffiss.

Chattanooga.—Henderson, Walls & Co. have lately started a harness and saddlery manufactory.

Chattanooga.—The Palmer Soap & Chemical Co. is to be reorganized and their factory put in operation.

Chattanooga.—James D. Roberts, Lewis J. Rees, Harry S. Probasco, R. H. Hunt and F. F. Wiehl have incorporated the Standard Marble & Stone Co.

Graysville.—James Green is starting a brick-yard.

Island Mills.—The names of the parties recently reported as leasing and to develop the iron ore mines of Joseph Rader, are James P. Rader, of Bristol, and Robert Deavy.

Johnson City.—The East Tennessee, Virginia & Georgia Railroad Co., (office, Knoxville,) will build a new depot.

Johnson City.—M. T. Smith, of Lynchburg, Va., and others, have organized a company to build a large tobacco factory. The capital stock is \$50,000.

Jonesboro.—The Tennessee Coal, Iron & Railroad Co., of South Pittsburgh, have conditionally purchased 4,500 acres of mineral lands.

Knoxville.—R. N. Hood and others have chartered a company to bore for natural gas. They will buy machinery and commence work soon.

Lawson.—Reynolds, Boker & Co. are developing the Swadley iron ore mine reported last week.

Memphis.—The Artesian Water Co. have organized with R. C. Granes as president; John Johnson, vice-president and financial manager; John J. Weller, secretary, and N. M. Jones, treasurer. The capital stock is \$1,000,000. The company will shortly commence work.

Memphis.—J. S. McTighe & Co. will receive bids for the grading, bridging and masonry of 20 miles of the Kansas City, Memphis & Birmingham Railroad.

Morristown.—A stock company has been organized to build an ice factory with H. H. Rice as president, and O. F. Hammond, secretary and treasurer. A site has been selected.

Nashville.—Several manufactories will, it is said, be moved from Rockford, Ill., to West Nashville. The Nashville Land Improvement Co. can give information.

Nashville.—O. I. Luce and A. D. Early, of Rockford, Ill.; J. DeWitt, of Newark, N. J., and J. W. Thomas and J. H. Acklen, of Nashville, have incorporated the Luce Manufacturing Co., to operate the plants of the Luce Manufacturing Co., of Rockford, and the De Witt Wire Cloth Co., of Newark, which will be moved to West Nashville and consolidated. The capital stock of the company will be about \$150,000 or \$200,000.

Nashville.—Thomas Parkes, H. R. Walker, E. McIver and others will incorporate the Southern Brass & Machine Works, with a capital stock of about \$150,000.

Nashville.—Two large furniture factories are to be moved from Michigan to West Nashville. The Nashville Land Improvement Co. can give particulars.

Nashville.—Huntley & Babcock, of Utica, N. Y., previously reported as to erect a large factory at West Nashville to manufacture agricultural tools, &c., have, with W. S. Bransford, J. P. W. Brown and O. W. Ewing, chartered the Lewis & Babcock Manufacturing Co., capital stock \$150,000. They will shortly erect buildings and move their plant from Utica.

Nashville.—The McKenzie (Ohio) & Tennessee River Road Co. has been chartered to build a railroad from McKenzie to the Tennessee river.

Nashville.—A. A. Arthur, of Knoxville, W. R. Tuttle, Richard P. Gettys, Martin L. Ross and Charles Semoure have chartered the Knoxville Southern Railroad Co.

Shelbyville.—Patrick Kerwin has received the contract to drill a well for the Shelbyville Oil & Gas Co.

Trenton.—\$40,000 has been subscribed to the Tennessee Central & Alabama Railroad.

TEXAS.

Anderson County.—800 acres of coal lands have been purchased and will be developed.

Austin.—J. S. Drake, of Chicago, Ill.; C. J. Hildreth, of New York; E. D. L. Wicks, of San Antonio, and L. B. Wicks and others, of Austin, have incorporated the Austin Water, Light & Power Co., capital stock \$750,000. Will erect an incandescent electric light plant.

Austin.—The Austin & Northwestern Railroad Co., reported last week as to extend their road from Burnet to Marble Falls, will receive bids for building the extension.

Bonham.—Proposals for building a stone courthouse will be received until August 8 by E. D. McClellan.

Bowie.—A new coal mine has been opened near Bowie.

Brenham.—The Brenham Compress Co. will sink an artesian well.

Burnet.—The Burnet & Lampasas Telegraph Co. will extend their lines to Austin.

Carthage.—A large saw mill is reported to be erected.

Coleman.—A coal mine is being developed by R. L. Duman.

Colorado.—William Martin, John Miller, and Byron Parsons have incorporated the Lone Star Salt Co., capital stock \$200,000.

Corsicana.—Efforts are being made to organize a company to build a street railroad.

Dallas.—The Farmers' Alliance contemplate erecting a large building to be used as a cotton exchange.

Dallas.—The mayor will receive bids for building a school house.

Dallas.—The name of the \$500,000 stock company, previously reported as being formed to build a cotton and woolen mill, is the Dallas Cotton & Woolen Mills. S. D. Blake is president; A. Sanger, vice-president, and O. P. Bowser, secretary and treasurer. Machinery will be purchased soon.

Dallas.—T. E. Eakin will erect an \$8,000 building and M. Schultz a \$5,000 building.

Del Rio.—W. K. Jones will receive bids for building a courthouse until July 14. The cost is to be not less than \$25,000 nor more than \$35,000.

El Paso.—H. W. Major, of Camden, Ark., previously reported as to build an opera house, has let the contract to Charles Fruin at \$38,000.

El Paso.—The Wells Fargo Express Co. will erect a bank building.

Fort Worth.—C. C. Allen, Walter Gresham, W. S. Pendleton, T. C. Vogel, L. A. Pires and others have chartered the Texas Town & Improvement Co., capital stock \$50,000.

Fort Worth.—The Fort Worth & Denver City Railroad Co. will build a roundhouse and repair machine shop along the extension of their road now being built.

Fort Worth.—The Fort Worth & Denver City Railroad Co. have increased their capital stock from \$10,000,000 to \$30,000,000, previously reported.

Fort Worth.—A \$250,000 land company is being organized.

Fort Worth.—Benjamin G. Pratt has erected the soap factory lately reported.

Fort Worth.—The North Side Street Railway Co., capital stock \$100,000, has been chartered by J. P. Smith, N. G. Ellis, N. T. Myers, W. A. Huffman and John D. Templeton.

Galveston.—Frank J. Brown, of St. Louis, and P. J. Willis and C. L. Cleveland, of Galveston, have incorporated the Sour Lake Springs Co., capital stock \$250,000, to establish a town and build a hotel at Sour Lake.

Galveston.—The Galveston City Street Railway Co. contemplate running their cars by electricity.

Granbury.—J. W. Day & Co. have moved their ice factory from Cleburne to Granbury.

Henrietta.—The city council will issue \$5,000 of bonds to sink an artesian well.

Houston.—J. Ziegler & Co., lately reported as to add considerable new machinery to their cotton pickery, want to correspond with manufacturers of cotton cleaning machines.

Jewett.—Iron ore and coal lands are being leased for development.

Longview.—Several saw mills will be built along the Galveston, Sabine & St. Louis Railroad.

Luling.—Otis McGaffey, Sr., Charles McGaffey, Otis McGaffey, Jr., and W. W. Lipscomb have chartered the Luling Lumber Co., capital stock \$20,000.

Marble Falls.—A. R. Johnson, of Burnet, will build water works and wants to purchase the necessary machinery at once.

Paris.—The Paris Street Railway Co. are extending their road about 3 miles. Have purchased materials.

Pittsburg.—The Pittsburg, Baxter Springs & Galveston Railway Co. has been incorporated at Baxter Springs, Kansas, to build a railroad from Pittsburg, Texas, to Baxter. Charles M. Daniels, John M. Cooper and others are directors. The capital stock is \$250,000.

Port Lavaca.—A stock company will be organized to build a wharf to cost about \$200,000. J. M. Bickford can probably give information.

San Antonio.—Richard Woolly, of Cincinnati, Ohio, and others will, it is said, build a hotel and sanitarium and lay out a town near San Antonio.

San Augustine.—R. E. Jacobs, of Shreveport, La., has leased about 25,000 acres of iron ore, coal and limestone lands, and is purchasing machinery to develop them.

Sherman.—The Sherman Electric Light & Power Co. contemplate adding an incandescent plant.

Strawn.—Johnston Bros. are preparing to extensively develop their coal mines and

have purchased a 50 horse-power hoisting engine.

Temple.—An iron foundry will, it is stated, be established soon.

Tyler.—A St. Louis party is negotiating for the building of a street railroad.

Tyler.—The Methodist Episcopal Conference have appointed W. S. Herndon, T. R. Bonner and others a committee to build a \$20,000 church.

Waco.—The Missouri Pacific Railroad Co. (office, St. Louis, Mo.) contemplate building a railroad from Waco to Brenham and one from Waco to Trinity.

Waco.—The Southern Electric Light Co. propose to erect an incandescent plant to cost about \$10,000.

VIRGINIA.

Abingdon.—The capital stock of the Damascus Enterprise Co., reported last week as organized to establish a manufacturing town, is \$500,000.

Abingdon.—Negotiations are being made for the erection of a Brush electric light plant.

Alexandria.—The capital stock of the Virginia Mining Improvement Co. has been increased \$100,000.

Buchanan.—D. L. Cook has bought 300 acres more of mineral lands, which he will develop.

Christianburg.—Walter Resor, of Cincinnati, Ohio, has leased the mineral interest in the land of William Epperly, 12 miles from Christianburg. He will develop.

Colliertown.—W. A. Tribbett will build a new mill.

Danville.—It is rumored that the Richmond & Danville Railroad Co., (office, Richmond,) will build a branch road from Danville to Bristol, Tenn.

Danville.—William Thomas has opened a cigar factory.

Dublin.—A. H. Flanagan will prospect for oil.

Marion.—The Marion Land Agency & Improvement Co., previously reported, has been organized, with D. D. Hull as president.

Pocahontas.—Alderson & Cooper are opening mines in the Flat top coal fields and will build coke ovens.

Seven Mile Ford.—John M. Preston, Jr., J. W. Roberts, F. P. McCready and R. P. Baker have formed a stock company to build a canning factory. Have purchased a site.

Tazewell C. H.—The Elkhorn Coal & Coke Co. are reported as building coke ovens on Webb Camp branch. The Shamokin Coal & Coke Co. will erect a saw mill at the same place.

West Point.—A company has been formed to erect an electric light plant. Work will be commenced at once. E. Wilkinson can give information.

Weyer's Cave.—It is reported that T. J. Harmison, Robert Garrett and others, of Baltimore, have bought Weyer's Cave, and will build a large hotel.

WEST VIRGINIA.

Fairmont.—H. S. Sands is making efforts to secure the erection of an electric light plant.

Weston.—A. F. Whelan will receive proposals for building a hospital until August 23. The cost will be about \$20,000.

Wheeling.—F. H. Lange, George W. Eckart, Jr., Albert H. Mabis, Thomas O'Brien and J. P. Rogers have chartered the Wheeling Match Co., capital stock \$30,000. Will probably build a new factory.

Winfield.—A large number of oil wells are reported to be sunk soon. A. Allen can give information.

BURNED.

Auburn, Ala.—The State Agricultural & Mechanical College; loss about \$100,000. Will be rebuilt.

Easton, Md.—The straw board mill of the Talbot County Paper Mill Co.

Elizabethtown, Ky.—The Ashton whisky distillery owned by Sloss, Simon & Co., of Louisville; loss \$8,000.

Frederick, Md.—The grist mill of Charles H. Kehne, 4 miles from Frederick.

Gibbsland, La.—The saw, grist and planing mill and cotton ginny of Job Russell; loss \$4,000.

New Orleans, La.—The cotton ginny and pickery of Smith & Jamison; loss \$10,000.

Roanoke, Va.—The mattress factory of E. H. Stewart.

Sniff, Ga.—The saw mill of G. P. Wilder. Sumter County, Ga.—The saw and grist mill of J. W. Bailey; loss \$1,500.

Vineland, N. C.—The saw mill of J. J. Frazier, 3 miles from Vineland.

To Build a Cotton and Woolen Mill.

DALLAS, TEXAS, June 23, 1887.

Editor Manufacturers' Record:

We have organized a company with an authorized capital of \$500,000 to build a cotton and woolen mill. Work will commence immediately. The officers are S. D. Blake, president; A. Sanger, vice-president; O. P. Bowser, secretary and treasurer. The name of mills is Dallas Cotton & Woolen Mills. Object is to make cotton and woolen cloth, such as brown sheetings, brown drills, brown ducks, brown ostaburys, cotton plaids, cotton chevots, cotton tickings, cotton hickories, cotton yarns, wool jeans, wool yarns, &c. There is no doubt that the mill will be speedily built and equipped with the very best and latest improved machinery. We have no doubt about the success of the enterprise, as we possess all the elements of success. We have plenty of room for more mills and we would be glad to see half a dozen similar mills built in Dallas during the next few years. S. D. BLAKE, Pres. DALLAS COTTON & WOOLEN MILL.

Proposals Invited for Building Large Reservoir.

NASHVILLE, TENN., June 21, 1887.

Editor Manufacturers' Record:

A contract will be let on August 9th for the construction of a masonry reservoir in Nashville. The reservoir will be built in two compartments, each to have a capacity of 25,000,000 gallons. The walls will be 34 feet in height and the total amount of masonry will be about 46,000 cubic yards. The reservoir will be provided with influent, effluent and gate wells, and the estimated cost of the reservoir, including iron work is \$434,000. J. A. JOWETT, City Engineer.

Will Add Machinery.

WADESBORO, N. C., June 21, 1887.

Editor Manufacturers' Record:

The Atlanta Brown Stone Co. has sold their interest to the Wadesboro Brown Stone Co., capital stock \$50,000, \$36,000 paid in. The capital stock to be increased to \$200,000. To the present plant will be added one large steam derrick with Copeland & Bacon hoisting engine, 15 ton capacity; 2 boilers of 40 horse power each; 3 steam drills; one railroad switch to the quarry; several buildings, and the company has secured a large area of quarry land and will open up a number of quarries in course of time.

WM. RACKLE, Supt.

OAKLAND, S. C., June 23, 1887.

Editor Manufacturers' Record:

We have in process of construction a tram railroad of 60 inch gauge. We are using 45 lb. T rail. The length of this branch will be about 5 miles, and is for the purpose of hauling logs to our mill.

J. A. MCCLURE, Supt.

Paint Works.

CENTER POINT, ARK., June 22, 1887.

Editor Manufacturers' Record:

The United States Antimony Company, of Philadelphia, Pa., contemplates the erection of large paint works at Antimony City, for the manufacture of their antimony into antimonial paints. They have large quantities of fine ores, smelters already built, and are now busily engaged in reducing the ores. They propose at an early day to put up several other factories for utilizing the inexhaustible quantities of metal now being mined and reduced. Paint works are decided upon now. It is thought that steel works will be established here.

B. F. KENNEDY.

New Marble Mill.

ATLANTA, GA., June 25, 1885.

Editor Manufacturers' Record:

We have secured contract from Georgia Marble Co., Pickens Co., Ga., for 24 gangs of saws, two 12-foot rubbing beds, one 250 horse-power condensing engine, three 100 horse-power compound boilers, steam pumps, shafting, pulleys, &c., and the entire machinery for the new marble mill which they are going to erect at once.

MCCOMBS, TAYLOR & CO.

Additional Machinery.

RACCOON MILLS, GA., June 24, 1887.

Editor Manufacturers' Record:

We have bought 18 cards, 1,900 spindles, 56 looms and other machinery to match, and are now receiving it.

RACCOON MANUFACTURING CO.

A Sugar Manufacturing Company.

KISSIMMEE, FLA., June 22, 1887.

Editor Manufacturers' Record:

Messrs. Hamilton Diston, of Philadelphia, and R. E. Rose, of Kissimmee, are two of the incorporators of the Osceola Sugar Manufacturing Co. JNO. M. BRYAN.

Will Enlarge Electric Light Plant.

GADSDEN, ALA., June 22, 1887.

Editor Manufacturers' Record:

We will enlarge our electric light plant in a short time; 25 lights.

QUEEN CITY ELECTRIC LIGHT CO.

Contracted for Water Works.

VAN BUREN, ARK., June 20, 1887.

Editor Manufacturers' Record:

The contract for water works has been let to the Water & Light Co., of St. Louis, and ready almost to sign contract.

F. M. NEAL.

RICHMOND, VA., June 21, 1887.

Editor Manufacturers' Record:

The Gallego mills have been bought by myself and associates. We do not intend to put in any new machinery this year, but will put everything in first-class running order and be ready for the new wheat crop. It is equipped with 23 pairs French Burr stones, purifiers, &c., &c. C. L. TODD.

BIRMINGHAM, ALA., June 21, 1887.

Editor Manufacturers' Record:

I am erecting a building for Morris & Underwood to cost about \$25,000. Am also building and enlarging gas works, which will cost about \$20,000; also two large brick buildings to cost about \$15,000, besides other smaller jobs. B. GILREATH.

NEW ORLEANS, LA., June 22, 1887.

Editor Manufacturers' Record:

I have rebuilt my trunk factory. I have just started my men last Monday working. CRESCENT TRUNK FACTORY.

To Build Street Railroad and Water Works.

ALBANY, GA., June 20, 1887.

Editor Manufacturers' Record:

We are advertising for local act in compliance with the law and will apply for charter to build a street railroad and water works. The company is not yet fully organized.

J. G. STEPHENS.

Building Talc Mill.

JARRETS, N. C., June 24, 1887.

Editor Manufacturers' Record:

The North Carolina Talc & Marble Co. has sold and leased their interest to Messrs. A. Rickard and F. R. Hewitt, of New York City. A. Rickard can be seen at our office, at 104 John street, New York, and F. R. Hewitt at the office at mine. We will build a 5 run of stone mill for talc, and open quarries of blue, pink and black marble, and will be in the market by August 15. Mill is under construction and marble quarries are being opened.

F. R. HEWITT.

To Bore for Gas.

KNOXVILLE, TENN., June 27, 1887.

Editor Manufacturers' Record:

Myself and others have formed a company, and intend at an early day to bore for natural gas about 22 miles from this city.

R. N. HOOD.

SUMTER, S. C., June 27, 1887.

Editor Manufacturers' Record:

We are thinking of putting in the electric light this fall, but have not yet decided to do so.

SUMTER COTTON MILLS.

Big Car Works at Decatur.

DECATUR, ALA., June 27, 1887.

Editor Manufacturers' Record:

On Saturday reliable news was received in regard to the removal from Urbana, Ohio, to Decatur, of the United States Rolling Stock Company's immense plant. The matter had been in negotiation for some time, and was definitely settled by cablegram from London on Friday. These immense works, covering acres of land near Urbana, will be at once moved to Decatur. The capacity of the works will be largely increased, and from one thousand to two thousand men will be employed. More cars will be made and repaired here than at any other car works in the United States. The removal here of these works will add not less than 5,000 population to Decatur. All Southern roads will look with great favor on these works, as their location here will enable them to buy all their cars at home. This company has unlimited resources and sells cars to new roads on long time, thus enabling them to equip themselves well at the start. It is rumored to-day that the shops of the L. & N. Railroad are to be removed to Decatur. This has not been announced as a settled fact, but there seems to be but little doubt of its truth.

H. S. D.

To Manufacture Furniture and Lumber.

BRIDGEPORT, W. VA., June 26, 1887.

Editor Manufacturers' Record:

The Bridgeport Saw & Planing Mill Co. has been formed for the purpose of building houses, manufacturing furniture and wood materials of all kinds. We will elect our officers on the first day of July.

W. B. STOUT.

KNOXVILLE, MD., June 28, 1887.

Editor Manufacturers' Record:

A creamery company has been formed here with Capt. H. T. Deaver as president; R. M. McDuell, secretary, and Hon. J. M. Miller, treasurer.

G. W. NISWANNER.

ALABAMA, it seems, is to have two immense car works. As stated in Judge Kelley's recent letter on that town, a company with a paid up capital of \$1,500,000 will establish in Anniston, in connection with the present car and car-wheel works, a gigantic enterprise to employ 1,600 hands and to turn out everything in the rolling stock line from freight, passenger and palace cars to locomotives. It is now announced that Decatur is also to secure great car works by the removal from Urbana, Ohio, of the extensive plant of the United States Rolling Stock Co. This is not, as some had supposed when the announcement was first made, the same establishment that Anniston has arranged for. While some Northern and foreign capitalists may probably be interested in both concerns, yet the Anniston company, we are informed, "is a separate enterprise and has no connection with the United States Rolling Stock Co., except that Mr. Hegewisch will be connected with both."

Bids Wanted for Building Hospital.

WESTON, W. VA., June 27, 1887.

Editor Manufacturers' Record:

The cost of new hospital is \$20,000. Bids for same will be received up to August 23d, 1887.

A. F. WHELAN.

Will Rebuild Saw Mill.

MAKELEVILLE, N. C., June 27, 1887.

Editor Manufacturers' Record:

I expect to rebuild my saw mill; capacity 20,000 feet per day.

H. D. SPEAR

FAIRMONT, W. VA., June 28, 1887.

Editor Manufacturers' Record:

Mr. H. S. Sands is making an effort for the erection of an electric light plant in our town, with favorable chances of success. There is also in course of erection a woolen factory at Barnsville, about one mile from this town, which will be completed about October 1, 1887.

N. S. BARNES.

CULLMAN, ALA., June 27, 1887.

Editor Manufacturers' Record:

Work will be pushed by the North Alabama Land & Immigration Co. and different enterprises started, and especially immigration brought to this country from the North and from Europe.

JOHN G. CULLMANN.

TAZEWELL C. H., VA., June 27, 1887.

Editor Manufacturers' Record:

The Clinch Valley Coal & Iron Co. is expected to lay out a town and open coal veins during summer and autumn of 1887.

A. G. & S. D. WAY.

DUTCH TOWN, LA., June 25, 1887.

Editor Manufacturers' Record:

L. Picard is having placed on his Live Oak plantation a 40 horse-power Milburn engine and an 80-saw Milburn gin, and on his Rescue place a Gullet 70-saw gin.

H.

ROCK HILL, S. C., June 27, 1887.

Editor Manufacturers' Record:

We are erecting an iron front, 2-story, 24x60 feet, building. The contractor is A. D. Holler.

ROCK HILL SAVINGS BANK.

J. M. CHENY, Cashier.

If you wish to keep posted on the progress of the South, read the MANUFACTURERS' RECORD. Price \$3.00 a year.

Information about the South.

THE marvelous mineral and timber wealth of the Southern States, their unrivalled capabilities as a manufacturing area, and the astonishing progress they are making in developing their natural resources and in utilizing their facilities for manufacture, are attracting the attention of the whole world. The extent of these resources and advantages is so fully and carefully set forth, and the progress of this development so faithfully chronicled from week to week in the **MANUFACTURERS' RECORD**, that it is now accepted everywhere as unquestioned authority on Southern affairs, and its statistics and statements are drawn upon by almost every writer or speaker on any Southern topic.

Its weekly issues constitute an authentic history of the industrial progress of the Southern States. It furnishes every week a vast variety of information on Southern affairs that can be gained from no other source. It discusses in its editorial columns and in its correspondence every topic of Southern interest. It presents the resources and development of the South in all their phases. To all who are in any way interested or concerned in the prosperity of the South, or who care to keep posted as to the industrial and commercial progress of that section, the **MANUFACTURERS' RECORD** is indispensable.

In addition to its wide circulation in all of the 14 Southern States, the **MANUFACTURERS' RECORD** has a rapidly increasing list of subscribers among Northern and Eastern capitalists and investors who wish to keep informed as to Southern progress.

New manufacturing and mining towns, owners of mineral and timber lands, and all others desiring to reach the notice of capitalists and manufacturers, will find the advertising columns of the **MANUFACTURERS' RECORD** the most effective medium through which to attain that end.

"THE NEW SOUTH"

PUBLISHED BY THE

Manufacturers' Record Co.
BALTIMORE.

With a view of meeting the demand for a thoroughly reliable book upon the whole South, the **MANUFACTURERS' RECORD Co.** has just issued a very handsome volume of nearly 500 pages entitled

THE NEW SOUTH; Its Resources and Attractions.

This book is devoted to an exposition of the South. It gives an accurate and comprehensive description of the Southern States, noting each State separately and giving their distinctive features and most salient characteristics; it tells of their resources and attractions, their present condition and vast possibilities; it treats of topography, soil, climate, woods, watercourses and manufactures; it portrays the attractions to the capitalist and those seeking homes in the South; it shows what the South is, what she has already done in the development of her agricultural and industrial interests, and what she is likely to become by reason of her boundless resources in soil, minerals, climate, rainfall, timber, marls and geographical position, and the vast variety of products possible to a wise and varied husbandry, and a grasp of her rich opportunities for manufactures.

It is a work of great value. No similar publication has ever before been issued in this country. It is just what was needed.

No one North or South desiring to be informed of the advantages and resources of the South, of the more than marvellous progress that is being made, and of the wonderful future of this section, can afford to be without this book.

Handsomely Bound in Full Russia, Gilt Edges, \$3.00, including Postage.
Handsomely Bound in Cloth, \$2.50, including Postage.

New Manufacturing Enterprises at Nashville.

NASHVILLE, TENN., June 22, 1887.

Editor Manufacturers' Record:

The Rankin Manufacturing Co. was started the 1st of last January with a paid-up capital of \$125,000, to manufacture clothing, and have their plant in operation and doing well. The Fourth National Bank increased their capital stock on May 1st from \$600,000 to \$1,250,000. On May 1st the Tennessee Range Manufacturing Co. increased their capital stock from \$20,000 to \$50,000. The H. B. Grubbs Cracker Co., on April 1st, increased their capital stock from \$50,000 to \$100,000.

A charter was registered yesterday for the Lewis & Babcock Manufacturing Co., to be established in the new town of West Nashville with a paid-in capital of about \$150,000. The incorporators are Messrs. Lewis and Babcock, of Utica, N. Y., and W. S. Bransford, J. P. W. Brown and O. Ewing, of Nashville, Tenn. The object of this company is to manufacture hoes, rakes and forks. Their buildings will cover about five or six acres of ground. This is virtually the Huntly & Babcock Hoe Co., of Utica, N. Y. They will, as soon as the buildings are ready, move their entire plant from Utica to this place. It is claimed by some parties, who are familiar with their business, that they can save at least 20 per cent. alone in the cost of the material for their handles in Nashville over Utica.

A charter was registered to-day for the Luce Manufacturing Co., with O. I. Luce and A. D. Earley, of Rockford, Ill.; J. G. DeWitt of Newark, N. J.; J. W. Thomas and J. H. Acklen, of Nashville. Their capital will be from \$150,000 to \$200,000. Buildings will cover five or six acres of ground. This is the Luce Manufacturing Co., of Rockford, Ill., and the DeWitt Wire Cloth Co., of Newark, N. J., consolidated and moved to Nashville, locating in the new town of West Nashville where they will have advantages unsurpassed by any manufacturing enterprises in the United States for their business. There will be moved from Rockford, Ill., to West Nashville in the next four or five months at least four or five large manufacturing enterprises. Two large furniture factories will move from Michigan to West Nashville between this and September.

Parties here are negotiating with several large manufacturing enterprises in New England who will perhaps move here.

The Southern Brass & Machine Works will be organized here in a few days with a subscribed capital of \$150,000 to \$200,000. Thos. Parkes, H. R. Walker and E. McIver will be prominently identified with the enterprise.

Most all of our manufacturing enterprises are running on full time and have plenty of orders and declaring good dividends. We expect at least from two to three million dollars to be invested in new manufactories here in the next 12 months. G.

Machinery Wanted.

HOUSTON, TEXAS, June 21, 1887.

Editor Manufacturers' Record:

We are enlarging our business, which will be several gin stands for ginning seed cotton and also machines for cleaning all kinds of low and trashy lint cotton. Would be pleased to correspond with manufacturers of cotton cleaning machinery.

J. ZIEGLER & Co.

Machinery Wanted.

BURNET, TEXAS, June 21, 1887.

Editor Manufacturers' Record:

I will put in water works at the city of Marble Falls to be operated by water power after the town-lot sale on July 12 next. I desire a ram for same, or the most suitable machinery, and would like to correspond with those who would like to furnish me. I want prices at once. A. R. JOHNSON.

To Manufacture Mirrors.

LOUISVILLE, KY., June 25, 1887.

Editor Manufacturers' Record:

We organized a company to manufacture bevel mirrors. Two of the organizers are practical men who understand their business, and seeing this and knowing the great benefit of such a concern to our business, we agreed to start them, and want to see them build up a business in the South. As it is to be run with scarcely any expense we don't see why such a concern can't do well. F. WM. VOGT.

COPY OF ORDINANCE

Passed by the Council of the Town of West Point, Virginia, on the 21st day of April, 1879, and re-enacted and approved on the 22d day of March, 1887.

Be it ordained by the Council of the Town of West Point, Va., that any party or parties investing in property in this town for the purpose of conducting any enterprise, such as manufactories, packing houses, &c., and actually operating the same, they shall be exempt from all corporation taxes upon such property, and all machinery and improvements thereon, for the term of ten years from the purchase of such property.

It is also ordered that the Mayor is hereby instructed to advertise this ordinance in the "MANUFACTURERS' RECORD," a paper published in the City of Baltimore, Md.

E. WILKINSON, Mayor.

MOON, HOBSON & CONWAY, REAL ESTATE,

Bristol, Tenn.

Timber, Coal, Mineral & Farming Lands.

MAGNETIC IRON ORE A SPECIALTY.

Factory for Sale.

The Sparta, Tenn., factory property, situated 1 1/2 miles from Sparta, on the Calf Killer river, and near a railroad, is for sale. The building is a splendid brick, four stories high, 60 by 100 feet, in good repair; new dam and race, 20 feet waterfall; 140 acres land, good brick dwelling and storehouse, several tenement houses; new machinery for making spokes and handles in the building, all in good running order. House was built for a cotton factory, and has room and water power to run 300 looms and 5,000 spindles. It belongs to the Bon Air Coal, Land & Lumber Co., who are engaged in mining coal, and offer this property at a great bargain. Enquire of SAM'L I. KEITH, president Fourth National Bank, Nashville, or, G. G. DIBRELL, SPARTA, TENN.

Cotton Machinery FOR SALE.

The Machinery of a 6,000 Spindle Spinning Mill, consisting of Openers, Cards, Railway Heads and Troughs, Drawing Frames, Slubbing Intermediate, Roving, Spinning and Twisting Frames. All in first-class condition. For particulars apply to

PAWTUCKET THREAD CO.

PROVIDENCE, R. I.

For Sale

- 1 No. 25 Bradley Cushioned Hammer \$225
- 1 No. 7 Sturtevant Fan with counter-shaft and lot blast pipe, pulleys, &c. \$100
- 7 Pipe-Threading Machines (power) \$275

Thread from 1/2 to 2-in. pipe Can be adjusted with dies to thread bolts same size.

Address,

J. L. ALLNUTT, CHATTANOOGA, TENN.

For Sale.

A large vein of Argentiferous Galena Ore, that assays \$50.00 to \$80.00 per ton, Silver, Gold and Lead.

Developed and ready for machinery, with 150 acres of land and fine water power. Ten (10) miles from railroad.

For particulars address

J. W. STEWART,

Box 304, Knoxville, Tenn.

FOR SALE.

1 second-hand 4 horse power boiler and engine; 1 No. 2 Kissel hand punch, second hand; 1 second-hand 4 ft. stove jointer, for butter tubs; 1 wood frame rip saw, new; 1 emery wheel stand, collars on both ends; also, 1 lot 8 arm pulleys. The above for sale cheap, or will trade for 24 inch iron planer. Address ULRICH & ALLISON, Rock Falls, Ill.

REAL ESTATE IN A Booming Alabama Town FOR SALE.

Three Hundred Choice Business and Residence Lots in the CITY OF ANNISTON.

This property is the best in the city, and having been bought before the boom, will be sold at prices affording investors a rare opportunity to make certain and handsome profits. Address

F. M. HIGHT, Anniston, Ala.

D. W. K. PEACOCK, Real Estate Agent,

CARTERSVILLE, GA.

Minerals a Specialty.

Refers to THE HOWARD BANK, Cartersville, Ga. J. W. RANKIN, Atlanta, Ga.

STEEL RAILS

COMPLETE OUT-FIT FOR Logging, Mining and Plantation

RAIL AND TRAM ROADS.

Light Sections Rails and Spikes in stock.

Locomotives, Logging Cars, etc. NEW AND SECOND HAND.

HUMPHREYS & SAYCE, OFFICE NO. 1 BROADWAY, N. Y.

WM. E. TANNER,

No. 1415 Main Street, Richmond, Va.

Is prepared to furnish promptly

LIGHT LOCOMOTIVES, Dummies for Street Railroads, Pole Railway Locomotives and Cars,

ENGINES, BOILERS, & SAW MILLS.

Also, Freight Cars, of all styles, Railroad Spikes, Fish Plates, Bolts, Car Axles, Car Wheels, Trucks, Links, Pins, and other Car Forgings, Bar Iron, Steel Horse Shoes.

WANTED

A FIRST CLASS MACHINERY SALESMAN to travel in Mississippi. Must be of good personal address and well up on plantation machinery, especially engines and boilers. Address, with reference and salary wanted, CHAS. M. WILLIAMS, Greenville, Miss.

WANTED.

Situation in the office or on the road with a reliable Fertilizer or other Manufacturing Company, North or South, needing a man of character and experience, familiar with States from Pennsylvania to Louisiana, and having large and valuable acquaintance. Position as Secretary, Correspondent or Solicitor preferred. Address

JAMES G. HOLMES,

119 S. Gay St., Baltimore.

LEDBETTER & CO.

Land and Loan Association.

(INCORPORATED.)

Commission Dealers in Lands, Stocks and Bonds.

City and Mineral Property a Specialty.

Capital Stock }
\$100,000.

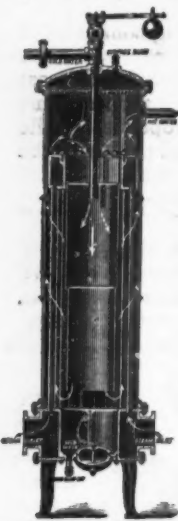
REFERENCES:—
First National Bank, Anniston, Ala.
Col. Jno. M. McKleroy, Pres. Anniston City Land Co.

ANNISTON, ALA.

— CORRESPONDENCE SOLICITED. —

**Fine Cut Work
A Specialty.**
Cor. Exchange Place
and Commerce St.

THE GOUBERT PATENT Feed-Water Heater AND PURIFIER.



Can be thoroughly cleaned without taking it apart.

Has a positive device for the prevention of Back Pressure.

Purifies the water better than any other exhaust steam heater.

Has a positive circulation, making all parts of the heating surface equally effective.

Brass Tubes Free to Expand.

Efficient and Durable.

For Circulars and Specifications, address

The Goubert
Manfg. Company,

5 BEEKMAN STREET, NEW YORK.

For Sale Cheap

MINING MACHINERY:

Crusher, Amalgamator, Wash-

er, Setter, &c., only slightly

used; a bargain. Also Hoist-

ing Engines for Mines.

One 32 x 32 x 9 ft. Planer; 2 Steam Pumps; Sturtevant Blower; Hand Boiler Punch; two 10-Horse Vertical Boilers, and one Horizontal Engine. Also, Engines and Boilers 3 to 45 horse power.

WM. C. CODD,

2010 and 2012 Aliceanna Street,
BALTIMORE, MD.

1837. NOVELTY WORKS. 1837.

JAMES MURRAY & SON,
Machinists and Millwrights

Engines and Boilers, Mills of all kinds, Marine Railways, &c. Improved Clay Tempering Machinery, Steam or Horse Power. Phosphate Machinery, Crushers, Rollers, Mixers, &c., &c. 40, 42 & 44 York Street,

NEAR LIGHT, BALTIMORE.

Repairing of all kinds promptly done.

ARCTIC ICE MACHINE MFG. CO.

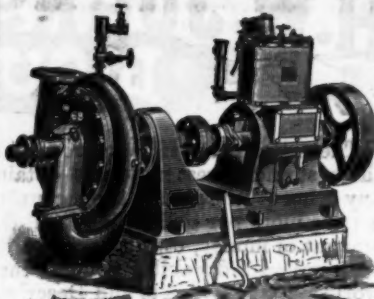
Works, 4, 6, 8 & 10 West Street, Cleveland, O.

Manufacturers of Machines for Making Ice and for Refrigerating Breweries, Pork Houses and buildings of all kinds requiring a steady, low temperature. Over 100 of our machines now in use. Send for any particulars desired. P. O. Box 92, Cleveland, Ohio, or P. O. Box 348 Cincinnati, Ohio.

TO READERS OF ADVERTISEMENTS.

Readers of the MANUFACTURERS' RECORD who order any goods herein advertised, or ask for information concerning them, will oblige the publishers by stating that they saw the announcement in the columns of this paper.

WEBBER'S STEAM CENTRIFUGAL PUMP.



Giving greater efficiency than any other Pump in the market. Send for Catalogue.

LAWRENCE MACHINE CO.

Mason Building, - BOSTON, MASS.

New York Office, 17 CORTLANDT ST.

AGENTS—J. Post, Jr. & Co., Boston, Mass.; Fairbanks & Co., St. Louis, Mo.; H. P. Gregory & Co., San Francisco, Cal.; R. H. Buchanan, Montreal, P. Q.

Roller Chain Belting



Detachable in every Link

FOR IMPROVED

ELEVATORS,

Conveyers,

AND

DRIVING BELTS.

FOR HANDLING

Coal, Ores, Grain,

CLAY, BRICK, &c.

ADDRESS THE

Roller Chain Belting Co.

COLUMBUS, OHIO.

Also Manufacturers of the

Legg Coal Mining Machines

and Rotary Power Coal Drill.

Send for Illustrated Catalogue.

R. SWORMSTEDT & CO.

Avents, Baltimore.



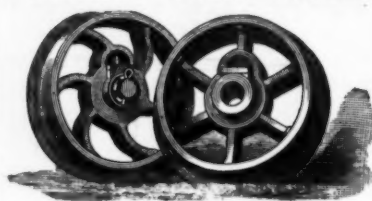
Bates' Hand Elevators.
Patented April 18, 1871. Released July 28, 1876.
OVER 6,000 IN USE.

Adapted for Warehouses, Stores, Factories, Hotels, Public Institutions, and every place where merchandise, &c., is transferred from one story to another.

JAMES BATES, Patentee,

Nos. 1 3 & 5 President Street. BALTIMORE.

Patent Tram Wheel



THE MOST PERFECTLY

Chilled and Automatic Self-Oiler

IN THE MARKET.

Will run two months with one filling of the reservoir. The economy in oil by using these Wheels pays for them. For particulars and prices of Wheels, Axles and Mining Cars, address,

GEORGE PEACOCK,

Selma, Ala.

If you are not already a subscriber to the BALTIMORE MANUFACTURERS' RECORD, send us \$3 and you will receive it regularly for one year, or six months for \$1.50.

Machinery and Engines,

SECOND HAND and NEW.

ENGINES.

100 Horse Power, 16x30 Cylinder, Automatic Cut-Off, good as new, used only short time, very fine Engine and bargain.

One new 200 Horse Power, 20x40, Automatic Cut-Off.

One 12 Horse Power, Vertical.

One 35 Horse Power, 8 1/2 x 10, Armstrong & Simms, good as new.

One each, 3, 5, 6, 8, 10 Horse Power Vertical Engines.

ENGINE LATHES.

28 in. x 20 ft. bed.

24 in. x 14 ft. bed. Aldridge.

28 in. x 12 ft. bed. Lambert.

20 in. x 8 ft. bed. Lambert.

Several Small Lathes, 12 in., 14 in., 16 in. swing.

PLANERS.

36 in. x 36 in. x 12 ft. Bement.

40 in. x 20 ft., to mount on mason work.

30 in. x 26 in. x 9 ft. Steel. Barridge.

24 in. x 22 in. x 6 ft. Chamberlain.

DRILL PRESSES.

One 25 in. Swing, self feed and back gear.

Two 20 in. Swing, screw and lever feed.

Estimates on new machinery and shop outfits of all kinds. SHAFTING IN STOCK.

Pulleys, Hangers and Belting.

C. I. JACKSON & CO.

14 West German Street, Baltimore, Md.

GOOD HOUSEKEEPING.

Has never before had so rich a Bill of Fare to lay before its readers as the one prepared for Volume Five. It will contain a new serial by CATHERINE OWEN, entitled

"Molly Bishop's Family,"

FROM BABYHOOD TO MEN AND WOMEN; A HOME STORY OF LIFE'S VICISSITUDES." With practical lessons for the guidance of those who don't know, but would like to know, how the Children of the Household should enjoy health and long life.

"Housekeeping in Foreign Lands."

An illustrated paper on "Housekeeping in an English Rectory," a very entertaining paper by a resident of a charming English rectory.

"Housekeeping in Honduras," with illustrations.

"Housekeeping in Florence," with an illustration of the kitchen of the writer, who writes of her own observations and experiences.

"Swiss Housekeeping," by an experienced housekeeper and, at the same time, an entertaining writer.

Coffee Making and Coffee Spoiling.

By the world's best authorities on the subject of Coffee Making—Maria Parloa, Marion Harland, Mrs. Helen Campbell, Catharine Owen, Juliet Corson, Mrs. D. A. Lincoln. A group of papers more notable and of greater value to housekeepers than anything of the kind ever published.

Meals for the Many of Moderate Means.

A valuable and unique series from the pen of Juliet Corson, one of the most experienced and authoritative writers on cooking, who has had great success and won much fame for her practical writings, this will be a most welcome series of papers particularly so in homes where there are many mouths to fill and much anxiety of mind as to how to fill them comfortably, conveniently and healthfully. School teachers and students, who "board themselves," and old bachelors and "anxious and aimless" maids, will be interested in the perusal of Miss Corson's "Meals for the Many of Moderate Means."

The above are but a few of the attractive features of GOOD HOUSEKEEPING, Volume Five. Send for a sample copy, and then after carefully perusing it decide whether you can make a better investment for \$2.50 than to take it for one year.

GOOD HOUSEKEEPING gives its readers' Two Volumes each year, of Thirteen Numbers each—Twenty-six Numbers a year. Subscription price \$2.50 a year; single copies Ten Cents, which may be had from any Newsdealer in the country. Sample copies, 10 cents.

CLARK W. BRYAN & CO.

New York Office,
230 Broadway.

SPRINGFIELD, MASS.

ALWAYS ASK FOR

ESTERBROOK'S
CELEBRATED
STEEL PENS.

PENS

LEADING NUMBERS:

048, 14, 130, 333, 135, 161

For Sale by all Stationers.

The Esterbrook Steel Pen Co.

26 John Street, New York

HYATT PURE WATER SYSTEM.

Adapting Nature's Process—Endorsed by the Highest Authority.

A Perfect Water Purifying System.

A thousand or more in use by Cities, Towns, Water Companies, Factories, Mills, Steam Boilers, Public Institutions, Private Residences.

Indispensable to Textile Manufacturers. Adapted to every condition requiring Clean, Bright Water in any quantity. Perfect in Operation, Quickly Cleaned Automatically, Reliable, Indestructible.

MUDDY WATER MADE CLEAN.

HARD WATER MADE SOFT.

Organic and semi-soluble elements removed. Scale and Mud Deposits in Boilers Prevented. HAS NEVER FAILED. Promised Results Guaranteed. Adopted by Somerville & Raritan N. J. Water Co.; City Water Co., Belleville, Ill.; Water Works, Charleston, W. Va.; Clark Thread Works, Newark, N. J.; Earl & Wilson, Troy, N. Y.; Norfolk & N. B. Hosiery Co., New Brunswick, N. J.; Victor Knitting Mills, and sixteen other knitting mills, in Cohoes, N. Y.; Hon. Daniel Manning, Albany, N. Y.; hundreds of others. For Circulars, Prices, &c., Address

HYATT PURE WATER CO., Tribune Building, NEW YORK.

Business Chances.

WANTED to know of some seashore town where a weekly newspaper is wanted, or of some already established newspaper, whose proprietor is willing to sell out a bargain to the purchaser. Address, E. S. Jones, White Cliff Springs, via Athens, Tenn.

WANTED.—Small dynamo, about capacity 3 lights. Address, C. L. Jackson & Co., 14 W. German street.

WANTED.—A sober, experienced and thoroughly competent mine boss, to open up and superintend inside working of coal mine. Must give references and state salary expected. Address W. P. Laramore, Trout Creek, Ala.

ROOT'S NEW IRON BLOWER.



POSITIVE BLAST.

IRON REVOLVERS,

PERFECTLY BALANCED.

Has fewer parts than any other Blower. Also, Blacksmith Blowers, Portable Forges, Tuyere Irons, and Gas Exhausters.

P. H. & F. M. ROOTS, Manufacturers,

CONNEYSVILLE, IND.

Send for Priced Catalogue

No. 7 CANAL STREET.

Sweet's Patent Measuring Machine.



Measuring Screw 10, 16 or 20 Threads to the inch, graduated to read thousandths or 32ds without calculation.

IT WILL PAY YOU TO USE THIS MACHINE

Upon COMMON WORK for the TIME it will save. Upon FINE WORK for the ACCURACY it will secure. It is the only Micrometer that will not lose its accuracy by use.

We will send one of these machines to reliable parties on trial. Those who use it would not be without one for many times its cost. Address,

SYRACUSE TWIST DRILL CO., SYRACUSE, N. Y.

HUGH SISSON & SONS,

210 E. Baltimore St., bet. North & Calvert Sts.,
BALTIMORE.

MANUFACTURERS OF

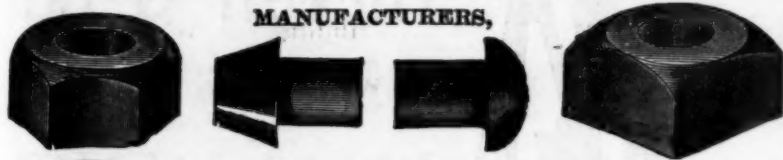
Marble Monuments

Tombs, Altars, Counters,
Furniture Slabs, Mantels, Tiles.

Estimates and Drawings Free.

HOOPE & TOWNSEND,

MANUFACTURERS,

**KEYSTONE BOILER RIVETS,**Cold Punched, Chamfered, Trimmed and
Drilled Square and Hexagon Nuts.

Finished and Case-Hardened Steel Hexagon Nuts.

BRIDGE RODS and RIVETS.**B**uilders' **IRON** Work.

TANK and COOPERS' RIVETS.

PHILADELPHIA, PA.

The STANDARD STEEL WORKS

Locomotive and Car Wheel

TIRES

Manufactured from

OTIS STEEL.Office, 220 S. Fourth Street,
PHILADELPHIA, PA.**Representatives:**J. H. BELCHER, Room 24, Astor House
Offices, New York City.JOHN McNEERY & CO., Church & Rec-
tor Streets, New York City, N. Y.

MORTON, REED & CO., Baltimore, Md.

HUBBERT & HUBBERT, 428 W. Main
Street, Louisville, Ky.GEO. KIRBY & CO., 123 Central
Ave., Cincinnati, O.ANDREW WARREN, 707 N. 2d St.,
St. Louis, Mo.

J. S. BREWER, 156 Lake St., Chicago.

H. L. LEACH, 30 Oliver St., Boston
Mass.**THE MIDVALE STEEL CO.**
TIRES and AXLES

OF EVERY DESCRIPTION.

MACHINERY STEEL

SPRING AND GUN
STEEL.

CRUCIBLE AND OPEN HEARTH STEEL.

Works & Main Office:

Vincennes, Philadelphia, Pa.

BRANCH OFFICE

222 Walnut St., Philadelphia, Pa.

CLEVELAND WHEEL AND FOUNDRY WORKS.**MAHER & BRAYTON, Proprietors.**

—MANUFACTURERS OF—

Car, Engine, Truck and Tender Wheels, Machinery, Railroad and Rolling Castings,

Also, CHILLED IRON RAILROAD FROGS, (Any Angle),

AND STREET RAILROAD TURNOUTS.

Office, No. 20 Carter St., - - - CLEVELAND, O.

The BEST OF THEIR KIND.**French Burr Portable Mills.**For grinding Stock Feed and Fine Meal for
family use.

Five Points of Superiority Found in Our Mills.

1st. Great Strength and Durability.

2d. Simplicity of Construction, requiring
less attention by reason of few adjust-
ments.

3d. Reliable at all times.

4th. Most effectual in their work, the Table
meal being of highest character.

5th. Low price.

If you are in need of a mill it will
pay you to send for catalogue and prices.**SINKER, DAVIS & CO.**

Portable Mill Factory. INDIANAPOLIS, IND.

**S. W. RITTER, Millwright,**

—BUILDER OF—

Flour and Saw Mills, Drug and Chemical Works, Portable Mills, Smut Machines, Mill
Stones, Bolting Cloths, Brushes, Guano Fertilizer Mills, and General Mill Supplies.

261 S. Carolina Street, BALTIMORE, MD

WARFIELD MFG. CO.

336, 338, 340, 342 North Street, BALTIMORE, MD.

Manufac-
turers of**SPECIAL MACHINERY,**Steam Engines, Shafting, Hangers, Pulleys, Couplings, Etc., Etc.
Sole Manufacturers of Warfield's Green Corn Cutter.

Sole Manufacturers of

For Cutting Green Corn from the Cob or Canning.

The Most Complete Line of Patented Machinery for Fruit, Vegetable
and Oyster Packers' use in the United States, and the Largest Manufacturers
of the same. CATALOGUE UPON APPLICATION.**JOHN STEPHENSON COMPANY LIMITED NEW YORK**TRAMWAY CARS OF EVERY DESCRIPTION.
LIGHT, ELEGANT, DURABLE.**R. SWORMSTEDT & CO.****Mill Builders**ALSO EASTERN AND SOUTH-
ERN AGENTS FOR**The COLUMBUS**
ROLLER CHAIN BELTING.**Mill Furnishings**All MACHINERY
sold at Manufactur-
ers' Price, and fully
guaranteed as rep-
resented.

Office and Shops, 603 N. Calvert St.

BALTIMORE.

Vehicle Spring Co., MANUFACTURERS PAT. WAGON SPRINGS & WAGON SEAT SPRINGS, CHATTANOOGA, TENN.Wagon
Seat
Spring.The same Wagon can be used as an Express and Lumber
Wagon. You can raise the end of your Wagon bed and put
the Springs on or off at pleasure.The hooks that fit the side of the Wagon bed are a part of
the Spring, making the lightest, the most comfortable, and the
strongest Spring on the market. These are a great improvement on the old style seat Spring.

VEHICLE SPRING CO.,

Gentlemen: After having tried your Springs, both Bolster and Seat, we cordially
endorse them as being in all respects the BEST and CHEAPEST now on the market, and
heartily commend them for general use. Very respectfully, &c.,

VANCE & KIRBY, J. H. WARNER & Co., Wholesale Hardware and Wagons.

DEMENT, BAIRD & Co., C. AULTMAN & Co., CHAS. W. BIRSE, Farm Implements and Wagons.

Address for further information

ATTENTION, DEALERS! A liberal discount to the trade.

The Chattanooga Wagon Spring

CHATTANOOGA, TENN., December 16, 1885.

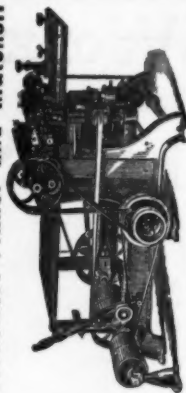
Blaine's Patent.

Mention MANUFACTURERS' RECORD.

VEHICLE SPRING CO., Chattanooga, Tenn.



Economist Planer and Matcher.

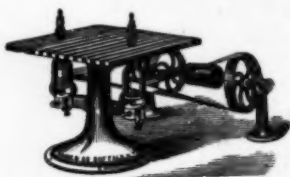

 \$325.00
 \$360.00
 20-inch.
 24-inch.

FRANK & CO.

Manufacturers and Dealers In

MACHINERY

FOR
 Planing,
 Matching,
 Moulding,
 Tenoning,
 Mortising,
 Boring,
 Shaping,
 Carving, Etc



176 Terrace St., Buffalo, N. Y.

A FULL LINE OF

Wood-Working Machinery,

Designed Expressly for

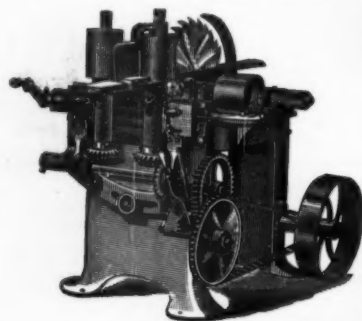
SOUTHERN TRADE.

SPECIAL DESIGNS IN

Re-saws, Planing Machines, Joint-
 ers, Band-Saws, Etc.

Send for Catalogue and Prices before purchasing
 elsewhere. Mention this Paper.

SNIGGS & CO., - - Buffalo, N. Y.



WORKSHOPS

WITHOUT STEAM POWER

SHOULD HAVE

BARNES'

Patent Foot Power Machinery. COMPLETE

Outfits for actual workshop business.

With them Builders, Cabinet

Makers, Metal and Wood Work-

ers compete with steam power.

Machines on trial if desired.

Proof of value, prices, full

detail, illustr'd catalogue, free.

W. F. & JOHN BARNES CO.

Rockford, Ill.

Address No 221 Ruby St.



Barnes' Pat. Upright Drills

20-inch Swing, with both

Worm and Lever Feed.



Barnes' Pat. Engine Lathes

15 inch swing, 6-foot or 8-foot Bed.

These machines are made a specialty

in our factory, they have advantages

not found in other machines in this

line. It will pay parties desiring to

purchase, or know more about this

class of machines, to send for full

description and prices.

W. F. & JOHN BARNES CO.

221 Ruby St., Rockford, Ill.

ESTABLISHED 1845. The Oldest Saw Manufactory in the South.

TOLAND & SON, Front & Low Streets, Baltimore.

Particular attention paid to Large Circular Work. We warrant our Circular
 Saws to stand more strain, without buckling or cracking, than any other make.
 We make all kinds of Tough-Tempered Circular, Mill, Cross-Cut, Band and Drag
 Saws, Planer Knives, Ensilage, Feed, Tobacco, Meat Choppers, and other Knives
 made to pattern, and Moulding Bits warranted equal to the BEST. N. B.—We
 make no charge for hammering any Large Circular Saw that we can't make "go."
 GIVE US A TRIAL, and for toughness of temper, durability and quality of
 material, compare our work with the best you have ever used.



ESTABLISHED 1873

WHITINSVILLE SPINNING RING CO.

WHITINSVILLE MASS. U.S.A.

MANUFACTURERS
 of SUPERIOR SPINNING
 AND TWISTER RINGS.

UPRIGHT DRILLS

A SPECIALTY.

ALL SIZES

WITH

Patent Quick Return

AND

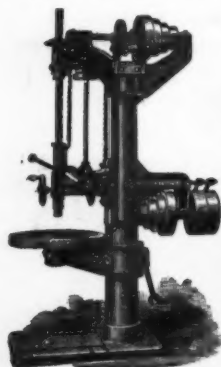
LATEST IMPROVEMENTS.

For catalogues and prices address

Bickford Drill Co.

Cor. Front and Pike Streets,

CINCINNATI, O.



TREVOR & CO.

Lockport, N. Y.

MANUFACTURE

HEADING SHINGLE AND STAVE

Machinery

Also LATHES,

And SPECIAL MACHINERY

For Turning Handles and all
 other Turned Articles of Wood.

If you want Shingle,
 Heading and Stave Machin-
 ery write for Catalogue A.

If you wish Handle Mach-
 inery ask for Catalogue B.

We solicit correspond-
 ence, and will give it
 prompt attention.

Mention This Paper.

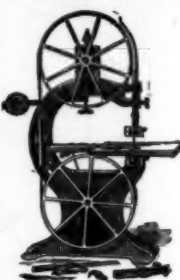
CORDESMAN, MEYER & CO.

171 and 173 West Second Street, CINCINNATI, OHIO.

FINE GRADES OF LATEST

Wood Working Machinery

OF EVERY DESCRIPTION.

Planing Mills, Furniture and Chair Factories,
 Carriage, Wagon and Agricultural Works.Write for our latest Catalogue and Price List. Correspond-
 ence solicited.

E. & B. HOLMES,

BUFFALO, N. Y.,

MANUFACTURERS OF

Barrel MACHINERY.

CHAMFERING, HOWLING, AND
 CROZING MACHINE.

HEAD ROUNDER.

Chamfering, Howling and Crozing Machines, Stave Dressers, Stave Jointers, Hoop Drivers,
 Crozing Machines, Heading Jointers, Heading Dressers, Beer Stave Benders,
 Stave Cutters, Leveling and Trussing Machines, Cylinder
 Stave Saws, Heading Saws, etc.

— STAVE, BARREL, KEG AND HOGSHEAD MACHINERY. —

Correspondence solicited. Mention this paper.

HERBERT BAKER,

MANUFACTURER AND DEALER IN

WOOD-WORKING MACHINERY.

Planing Mills, Furniture Factories, Sash, Door and Blind
 Factories, Wagon and Agricultural Works.

MACHINERY FOR PATTERN SHOPS A SPECIALTY.

98 Erie Street, TOLEDO, OHIO.

STEARNS MFG. CO., ERIE, PA.

BUILDERS OF

Capacity 15,000 to 450,000 feet per day. CIRCULAR SAW MILLS Complete outfits
 planned and furnished.

ENGINES,

15 to 500 Horse-Power.

BOILERS

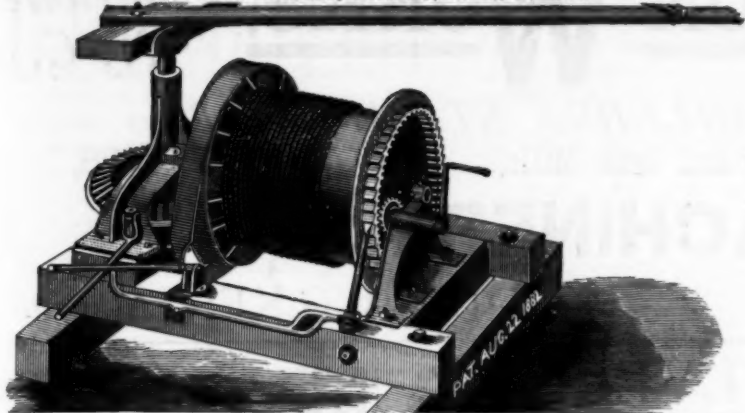
 OF IRON OR STEEL.

BAND SAW MILLS, with Friction or Steam Feed.

STEARNS' Fractional Head Blocks, Edgers, Cut-Off Saws, Trimmers.

The Wilkin Pony Gang. No foundation. Capacity 30,000 to 40,000 feet of Flooring per day. The
 Wilkin Heavy Gang Saw Mill for large mills. Lath and Picket Mills, Bolters, Conveyors, &c.

THE CONTRACTORS' PLANT MANFG. CO.
129 ERIE STREET, BUFFALO, N. Y., U. S. A.



The illustration represents a Horse-Power Hoisting Whim. It is designed for mining purposes or raising coal or water out of a shaft. It will raise a bucket or weight weighing seven hundred pounds seventy-five feet per minute. The machine is made entirely of iron and steel excepting the sills, and is not affected by dry or wet climates. The hoisting drum is under complete control of the man at the shaft, landing the bucket by operating the levers at hand, and by which means the drum can be thrown in and out of gear at will when the horse is in motion, or the bucket lowered by the brakes as safely and conveniently as by a steam power hoist. No clutches to throw out or in gear. The drum will carry 500 feet or more of $\frac{3}{4}$ steel wire rope. The machine is **SMALL, LIGHT, EASILY HANDLED** and **DURABLE**, sufficiently strong to do the desired work, and so perfectly simple that it can be readily understood by any miner or person inexperienced with machinery. There is a safety attachment on the end of drum in case of an accident, the dog always being in gear when the bucket is being raised. Easily transported; can be made in sections small enough for mule-back transportation if desired.

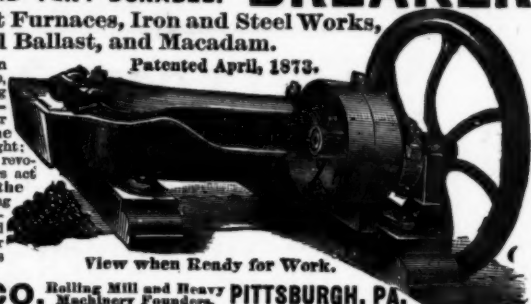
We Also Manufacture Horse-Power Hoist for Railway Contractors, Bridge Builders and Quarrymen.
Correspondence Solicited. Illustrated Catalogue furnished on application. Mention this paper when you write.

FORSTER'S STONE AND IRON ORE BREAKER
VERY SIMPLE AND VERY DURABLE.

For Mining, Blast Furnaces, Iron and Steel Works, Railroad Ballast, and Macadam.

Lever moves horizontally. Can be operated with horse, mule, water or steam power. Owing to Great Gain in Leverage, we do the work of other Crushers with one third the power and one half the weight; and as we crush twice in a revolution, where other Crushers act but once, we do double the quantity. In Fine Crushing for Stamps, Burrs, or Finishing Mills, we can do more and Finer Work than has ever been attempted. For prices and testimonials, address

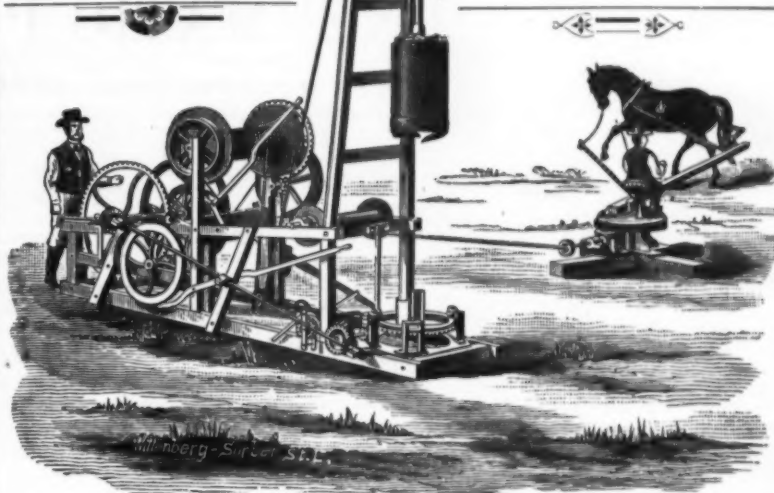
Patented April, 1873.



View when Ready for Work.

TOTTEN & CO. Rolling Mill and Heavy Machinery Founders, PITTSBURGH, PA.

Heavy Combined Well Boring AND Rock Drilling MACHINE.



Will operate like No. 1, but is intended for deep Artesian Well Boring. Will go to a depth of 600 or 800 feet. A very complete machine, fully described in new Catalogue now being issued.

MANUFACTURED BY

Western Forge & Tool Works,
1222 Collins Street, ST. LOUIS, MO.

Send for Catalogue.

Mention MANUFACTURERS' RECORD.

The CALDWELL PATENT SPIRAL STEEL CONVEYOR,

Made of Steel, Double Bolted, Double Collared and Extra Strong Couplings.

SPECIALLY ADAPTED TO USE IN HANDLING COTTON SEED AND ALL ITS PRODUCTS, FERTILIZERS AND PHOSPHATES.



Dealer in Mill and Grain Elevator Supplies.

Can Ship from Pittsburgh or Chicago.



THIS BUCKET is of one piece steel. No seam. No Rivets. Light, strong, durable. Discharges well at high speed.

H. W. CALDWELL,

131 and 133 West Washington Street, CHICAGO, ILL.

LINK BELT MACHINERY.

Elevating and Conveying Machinery,

(EMPLOYING EWART CHAIN.)

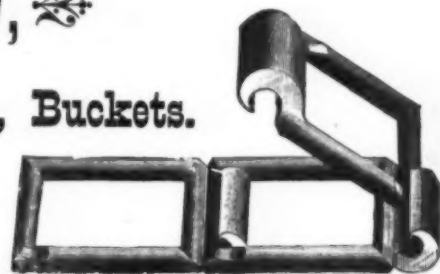
Sprocket Wheels, Traction Wheels, Shafting, Pulleys, Buckets.

Send for New Catalogue containing all the latest improvements in Elevators and Conveyors.

BURR & DODGE, 39 South Holliday Street, Baltimore, Md.

123 and 125 N. 5th St., Philadelphia, Pa.

LINK-BELT MACHINERY CO., CHICAGO, ILL.



BRIDGEPORT BRASS CO., 19 Murray Street, NEW YORK

— MANUFACTURERS OF —

Sheet Brass, Seamless & Brazed Brass AND Copper Tubing

BRASS and COPPER WIRE, and RODS,

Gas and Kerosene Burners and Trimmings. The Celebrated Leader Burner a Specialty.

ELECTRIC COPPER WIRES, Plain and Covered. Particular Attention given to Cutting Blanks and Metals to Order.

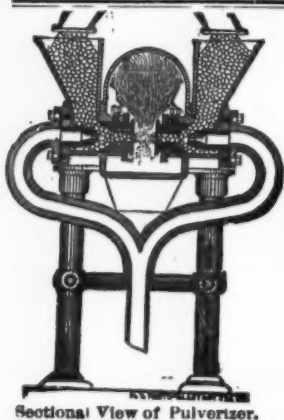
MECKLENBURG IRON WORKS, Charlotte, N. C.

BUILDERS OF { *ENGINES and BOILERS, STAMP MILLS,*
CRUSHERS, Circular Saw and Grist Mills, CORNISH PUMPS,

MINING MACHINERY.

Cotton Presses, Water Wheels, Shafting and General Machinery.

JOHN WILKES, Manager.



Sectional View of Pulverizer.

PNEUMATIC PULVERIZER.

The principle of pulverization consists in the employment of

TWO POWERFUL OPPOSING CURRENTS

of dry super-heated steam, so arranged that they continuously charge themselves with crushed or granulated material, and by the great force and velocity of the steam currents the minerals are dashed against each other with such power of concussion as to cause the hardest ores to be pulverized to any degree of fineness desired. The high temperature of the super-heated steam currents employed, through which every minute particle of ore must pass, causes them to become very hot and dry, which produces a beneficial effect upon Sulphurets and ores containing rusty Gold. The light weight and simplicity of construction of the Pulverizer, the extremely small and inexpensive wearing parts are the WONDER and SURPRISE of all who witness its operation. The Company are prepared to furnish complete plants for pulverizing

10 to 200 Tons Per Day,

including a Sectional Steam Boiler supplying all the power required.

PNEUMATIC PULVERIZER COMPANY,

L. F. HOLMAN, Pres.
F. A. LUCKENBACH, Supt.

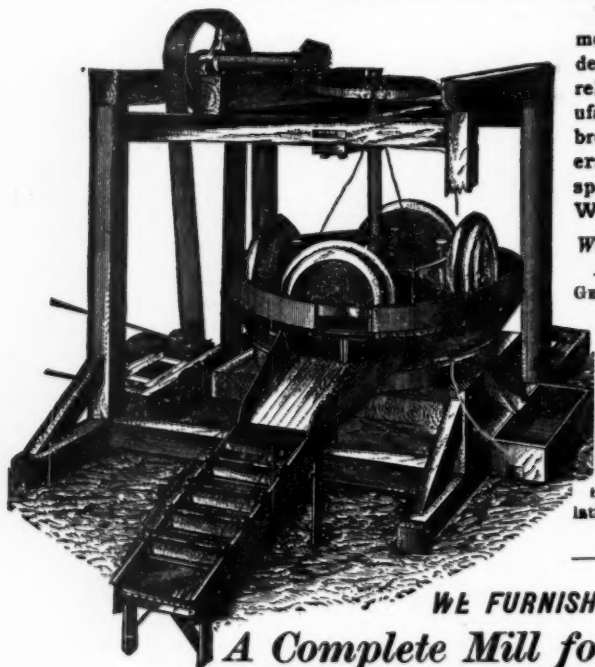
2 and 4 Stone Street, New York.

WRITE FOR PARTICULARS.



OSGOOD'S
\$50
Scales
For \$35.00
We deliver on trial,
Fully warranted,
all metal parts for
U. S. Standard
2-Ton Wagon Scales.
\$15 covers cost of
timbers and work.
Larger sizes in pro-
portion.
Illustrated book FREE
OSGOOD & CO.
BIRMINGHAM, N. Y.

WISWELL Ore Pulverizer and Amalgamator COMBINED.



The following testi-
monial from Mr. Mars-
den, of the firm of Far-
rel & Marsden, man-
ufacturers of stone-
breakers & ore-crush-
ers, Ansonia, Conn.,
speaks volumes for the
Wiswell Mill:

Wiswell Electric Mining
Machinery Co.:

GENTLEMEN: After care-
fully inspecting your
mill and seeing it in
operation, I do not hesi-
tate to say that it is on
of the best, if not the
best pulverizer and most
complete gold saving
machine I have ever
seen.

Please accept congratu-
lations for your success.
S. L. MARSDEN.

WE FURNISH

A Complete Mill for \$2,500.

DELIVERED ON BOARD CARS.

For further information address

WISWELL
Electric Mining Machinery Company,

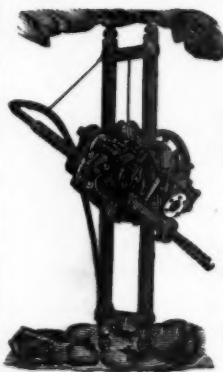
A. A. REEVE, Treas. 4 Post-Office Square, Boston, Mass.

TO READERS OF ADVERTISEMENTS.

Readers of the MANUFACTURERS' RECORD who order any goods herein advertised, or ask for information concerning them, will oblige the publishers by stating that they saw the announce-
ment in the columns of this paper.

M. C. BULLOCK MFG. CO.

MANUFACTURERS OF



Diamond Pointed Rock Drills,
STEAM ENGINES and BOILERS,
Lane's Patent Band Friction Hoisting Machinery,
FOR MINES, BLAST FURNACES, DOCKS, ETC.
STRAIGHT LINE ENGINES.

GENERAL OFFICE:

Address,

WORKS:

138 Jackson St., Phoenix Building. Lake and Tallman Av.,
CHICAGO, U. S. A.

The Little Giant Excavator.

—A LONG FELT WANT SUPPLIED.—

For DITCHING, EXCAVATING

Loading Wagons

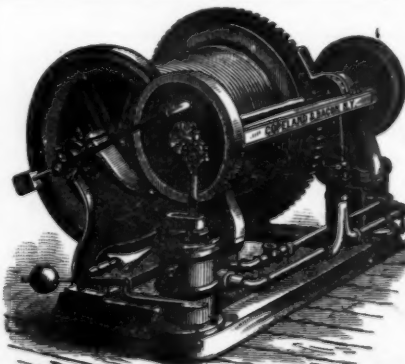
and Cars, Etc.

50 TO 100 PER CENT. SAVED
IN LABOR.

Capacity of Machine 500 to 700
cubic yards per day. Self propel-
ling. Easily moved. Being built
entirely of steel, is both strong,
light and a very substantial ma-
chine. Can be used on flat-boat for
dredging ditches, irrigating or dig-
ging canals. Contractors and railroads promptly furnished with estimates for excavators of every description



Address VULCAN IRON WORKS, Toledo, Ohio.



BACON Winding Engines
Furnace Hoists
Mine Hoists.

(With or Without Boilers.)

"Mining PLANTS," Concentrating
Works and Dredging Machinery
Furnished Complete.

COPELAND & BACON,

85 Liberty Street, New York.

309 Arch Street, PHILADELPHIA.

REFERENCES:—Croton Magnetic Iron Mines, Brewster's, N. Y. Crown Point Iron Co., Crown Point,
N. Y. Belvidere Iron Co., 32 Broadway, New York. Sea Island Chemical Co., Beaufort, S. C.

TRADE NOTES.

MESSRS. COPELAND & BACON, of New York, write us: "Recognizing the fact that Philadelphia is unsurpassed as a center of railroad and mining companies, we will open on or about the 1st of July a store and office at 309 Arch street in that city, where we shall be pleased to have our friends inspect a well-selected stock of hoisting machinery, including among other things our double cylinder horizontal hoisting engine, which in workmanship and details is superior to any hoisting engine now in the market. This engine is made with link motion, friction drum, or both combined, single or double drum, to be of any length and diameter, to suit every style of hoisting. Our representative in Philadelphia, following the long established custom of our house, will be pleased to visit any party who contemplates purchasing hoisting machinery, and offer suggestions regarding the best arrangement of machinery for the work to be accomplished. The opening of a branch so near the home office is a step that has been long considered, but, we believe, the citizens of Philadelphia will see that we never have cause to regret our decision."

MR. WM. T. MALSTER, president of the Columbian Iron Works & Dry Dock Co., Locust Point, has contracted with Geo. F. Patterson, of 217 East Fayette street, Baltimore, to install an incandescent electric light plant, Sawyer-Man system. The lights are to be distributed throughout the works, boiler, blacksmith, machine and pattern shops, foundry, drawing-room and offices. The installation is to be commenced immediately and pushed to completion. It is the intention of Mr. Malster to start shortly a full set of hands to work all night on the United States steel cruiser and the two large steel ferry-boats for the Staten Island & Rapid Transit Railroad Co. that are now being built at these works. This electric light plant will make the fifth one that Mr. Patterson has installed in this city.

ON April 18th the Committee on Fire Department of the Board of Aldermen, after receiving proposals from several manufacturers of steam fire engines, decided to purchase a No. 4 Silsby engine of the Silsby Manufacturing Co., of Seneca Falls, N. Y. This is the fourth Silsby engine purchased for the Wilmington Fire Department, and the result of Tuesday's trial demonstrated the superiority of this style of engine and the excellent judgment displayed by our fire committee in their purchase. In July, 1886, the city purchased the steamer "Atlantic," a No. 3 Silsby engine, for Wilmington S. F. E. Co. No. 1, and at the time it was delivered was thought to be as near perfect as a fire engine could be made; but the new engine—the "Cape Fear" has several valuable improvements over the "Atlantic," which is an evidence of the progressiveness of the Silsby Company.—Wilmington, N. C., Star.

THE Kirkwood Mining Co., of Bear City, Ark., composed of several St. Louis gentlemen of large mining experience, have 40 claims, embracing nearly all the different grades and varieties of ore found around this camp; are about reorganizing on a large scale and to put in the latest machinery. Dr. M. L. Gerould, of Kirkwood, Mo., and F. D. Booth and C. C. Woods, of Bear, are managing the company's affairs, and promise much developing. Assays made from their ores have been unusually rich.

THE roller chain belting manufactured by the Roller Chain Belting Co., of Columbus, Ohio, can now be had of J. N. Rogers & Co., 107 Liberty street, New York, and R. Swormstedt & Co., Baltimore, Md. Both of these firms will carry a full line of the various chains manufactured by this company.

THAT Buffalo is growing and her industrial interests expanding is shown by many recent purchases of land at Black Rock for manufacturing and building purposes. Among the transfers recorded to-day is the purchase by Edward G. Felthousen of 24½ acres on the Military road, inside and adjoining the Central Belt Line, for \$43,000; and the purchase by Emory P. Close and Edward G. Felthousen of 7½ acres, adjoining the above tract, for \$12,000. This tract will be immediately divided up into building lots, upon which houses for Volker & Felthousen's operatives will be constructed. The Volker & Felthousen Manufacturing Co. will soon begin the construction of a large factory adjoining the belt line tracks, and, as soon as completed, will remove from their present location on Church street. They intend to increase their manufacturing capacity, and will add to their former pump business the manufacture of high duty duplex water works pumps, furnishing employment to about 200 men.—Commercial Advertiser, Buffalo, N. Y.

MR. J. W. STEWART, box 304, Knoxville, Tenn., writes us as follows: "The mine referred to in advertisement of this date is in Watauga county, N. C., 10 miles from the now famous Cranberry iron mines, on one of the tributaries to and near the Watauga river and two miles of the survey of the Watauga River Railroad. The developments of this mine consist of cuts and shafts 50 to 107 feet deep. The vein is a true fissure, five to seven feet thick, a chloritic schist or soft slate. Its walls are granite and hornblende. The ore is an argentiferous galena, easily reduced, and none smelts better. It contains its own flux, and by many assays and tests was shown to contain: gold \$4 to \$16, silver \$12 to \$50, lead 300 to 1,200 pounds per ton. There is a great quantity of this ore in sight. The mine is at the extreme west end of the 150-acre tract of land, and runs east and parallel to and with the Blue Ridge mountains. The land is covered with a dense forest of the best timber, and a fine water-power at the mine for an immense amount of machinery. Not a dollar is required for artificial drainage. The altitude is nearly 4,000 feet. A grander, more beautiful and healthy climate does not exist. All the facilities for cheap and successful mining are found here. Those wishing to invest in such property should not fail to see and investigate the Flannery mine. While this is the first and only effort ever made in this section for silver, yet no one need be surprised in a short time to see it the Southern Leadville."

THE clays all around Tuscaloosa, Ala., are especially adapted to brick making. The public buildings, of which there are so many about the place, have been built of brick made at Tuscaloosa. A large brick-making establishment recently established there (the Tuscaloosa Brick and Tile Company) are making a beautiful pressed brick which they are shipping in large quantities to Bessemer, Birmingham, and other points on the A. G. S. R. R. So fine is the clay that this company is making arrangements to manufacture an oiled pressed brick for fine facing work. In addition to this fine material for common brick, immediately adjacent to the town, and on the railroad, are large deposits of a superior quality of fire-clay, finely adapted to the manufacture of coke-oven brick, drain tile, sewer-pipe and jug ware. It has been already largely used for the last-named purpose. The common brick material overlays in many localities the fire-clay, so that both materials would be upon the same ground, and no labor lost in handling either. These facts, in view of the enormously increasing demand for coke in the State, which will necessitate the immediate erection of thousands of coke ovens, are of great importance. The demand for brick of all sorts is already very great, and far in excess of the supply, and profits calculated

on the cost of making brick at Tuscaloosa are very large. The Tuscaloosa Coal, Iron & Land Company has, immediately upon the railroad, large bodies of this clay land, and is prepared to make favorable arrangements with parties meaning business in this connection.

Literary Notes.

SCRIBNER'S MAGAZINE for July contains: Bonaparte, frontispiece, from a miniature by Frederic Millet, presented by Napoleon to Marshal Soult. The Physical Proportions of the Typical Man, by D. A. Sargent, M. D., with illustrations from photographs and diagrams furnished by the author. A Collection of Unpublished Letters of Thackeray, IV, with a reproduction of a letter and drawings. The Return to Nature, by Edith M. Thomas. Some Illustrations of Napoleon and his Times, II, by John C. Ropes, with illustrations from the author's collection, Jemmy Bascom, by Philip Henry. The Common Chord, by Ellen Burroughs. A Girl's Life Eighty Years Ago, selections from the letters of Eliza Southgate Bowne, I, illustrated with portraits and contemporary prints. On an Old Road, by Charles Edwin Markham. A Great Patience by Edward Irenæus Stevenson. Seth's Brother's Wife, chapters XXIV-XXV, by Harold Frederic. Silent Sorrow, by Louise Chandler Moulton. French Traits—The Social Instinct, by W. C. Brownell. The Owl, by Charles Lotin Hildreth. A Perilous Incognito, Part I, by H. H. Boyesen.

W. S. KELLEY, cotton mill expert and engineer, Lowell, Mass., has published an interesting pamphlet entitled "The Standard Yarn Tables, with a Treatise on Cotton Preparation and Elements of Strength in Cotton Yarns."

"Have You Heard of it?"

What's that! Solid trains between Cincinnati and St. Louis over the C. H. & D. R. R. and Vandalia Line. Commencing Sunday night, June 10th, the C. H. & D. and Vandalia will establish their through passenger line between Cincinnati and St. Louis and will put on solid trains, made up of elegant parlor chair cars on day trains and pullman drawing room and sleeping cars on night trains. The morning trains out of Cincinnati will leave C. H. & D. depot, Fifth and Hoady streets, at 7:45 A. M. daily, except Sunday. The evening train will leave at 7:00 P. M. and will run daily. The purchasing of the Vandalia Line by the C. H. & D. Co. now gives them the best line between Cincinnati and St. Louis as the track is first-class and their equipment un-qualified. Quick time, comfort and safety is what the traveling public want, and with this new line established no opposition line can secure the business against them.

Important.

When visiting New York city, save baggage express and carriage hire, and stop at the Grand Union Hotel, opposite Grand Central Depot.

600 handsomely furnished rooms at \$1 and upwards per day. European plan. Elevators and all modern conveniences.

Restaurants supplied with the best. Horse cars, stages and elevated railroads to all depots. You can live better for less money at the Grand Union Hotel than any other first-class hotel in the city.

TOURISTS will find the American House, Boston, a most convenient point from which to visit places of interest. It contains a large number of suites of rooms particularly adapted to families traveling.

THE BEST.—First-class accommodations at Palace Hotel, Cincinnati, \$2 and \$2.50 per day. Elegant rooms, fine table and all conveniences.

DIXON'S ARTISTS' PENCILS are without equal for draughtsmen and engineers. If your stationer does not keep them mention this paper and send 16 cents for samples worth double the money to Jos. Dixon Crucible Co., Jersey City, N. J.

List of Patents.

The following Patents were granted to citizens of the Southern States, bearing date June 21, 1887. Reported expressly for this paper by Louis Bagger & Co., Mechanical Experts and Solicitors of Patents, Washington, D. C.

| | |
|--|---------|
| Adler, A. S., Baltimore, Md. Shoemaker's measure..... | 365,991 |
| Battelle, J. G., Covington, Ky. Joint for sheet metal..... | 365,048 |
| Belches, Richard, Haymarket, Va. Fire escape..... | 365,930 |
| Cooper, Isaac, Fort Worth, Texas. Stomach bitters..... | 365,242 |
| Dunn, J. H., Quisenberry, W. Va. Car-coupling..... | 365,179 |
| Fairbanks, H. W., Atlanta, Ga. Dust trunk cleaner for cotton openers..... | 365,175 |
| Geiger, F. C., Wood county, W. Va. Double shovel plow..... | 365,952 |
| Gillingham, H. R., Baltimore, Md. Packing can..... | 365,064 |
| Haverling, J. L., Memphis Tenn. Die for cutting stencil plates..... | 365,066 |
| Hansen, T. J., Macon, Ga. Construction of vessels..... | 365,180 |
| Hurt, Joel, Atlanta, Ga. Thermal valve..... | 365,258 |
| Hutchins, C. N., Dupree, Texas. Cotton cultivator..... | 365,073 |
| Jones, F. C., Ouachita Parish, La. Station indicator..... | 365,184 |
| Knox, T. A., Carrollton, Ky. Shaft support..... | 365,310 |
| Levering, F. W., Baltimore, Md. Mirror..... | 365,964 |
| Lockfaw, J. A., Wilmington, N. C. Rice mill..... | 365,191 |
| Mann, W. B., Baltimore, Md. Vulcanizing apparatus..... | 365,083 |
| McWhorter, J. K., Salem, Va. Washing compound..... | 365,269 |
| Pecht, Charles, Boston, Texas. Nut shell cutting machine..... | 365,198 |
| Selden, Charles, Baltimore, Md. Automatic telegraphy..... | 366,103 |
| Smith, W. R., Bandera Texas, (and A. L. Washburn, New York, N. Y.) Coin operative electrical weighing scale..... | 365,353 |
| Stonestreet, G. D., Birmingham, Ala. Ore concentrator..... | 365,279 |
| Tillman, D. E., Atlanta, Ga. Umbrella support..... | 365,982 |
| Trabue, William and I. H., Louisville, Ky. Planting hoe..... | 365,108 |
| Whitehurst, R. W., Norfolk, Va. Plow..... | 365,258 |
| Williams, R. E., Dallas, Texas. Reflector for lamps..... | 365,215 |
| Wilson, M. M., Honey Grove, Texas. Spark arrester for smoke stacks..... | 365,114 |
| Wolf, Frederick, Newport, Ky. Packing apparatus..... | 365,217 |

A. P. THAYER,
Solicitor of U. S. and Foreign
PATENTS,
No. 86 Astor House, New York.

Experience of Over 20 Years.



IMPORTANT To Wharf Owners.

THE PATENT PILING PROTECTOR CO., BRUNSWICK, GA., is prepared to protect piling from the Teredo and other Marine Pests in any Harbor in the United States, and will erect its plant, which is inexpensive, in any Harbor where a contract is offered, and prepare piling from the timber near at hand. The process is thoroughly effective, indestructible in salt water, and protection for ten years guaranteed. Is fully protected by letters patent. Has been tested for six years; is better than metal covering; as good and for piling in some respects better than creosoting; costs less than one-half as much as metal covering or creosoting. Circulars fully explaining process will be sent upon application. Correspondence solicited.

Address,
C. P. GOODYEAR, President,
BRUNSWICK, GEORGIA.

BERNHARD DIETZ, Manufacturer of Printers' Rollers, and Roller Composition. Factory, cor. Light and Mercer streets, Baltimore. Prices: Composition, (bulk) 50 cents per lb.; for Casting, also, 50 cents per lb. Orders by Mail promptly attended to.

GREAT ★ INDUCEMENTS

* — OFFERED — *

✦ To Manufacturers ✦

★ TO LOCATE IN NORTH ALABAMA. ★

THE **Decatur Land, Improvement & Furnace Co.**

WITH A

PAID-UP CAPITAL OF \$1,000,000.

With 5,600 acres of Town Lands and 50,000 acres of Mineral Lands, with magnificent
Manufacturing Sites located on the Tennessee River, is prepared to offer
great inducements to manufacturers in the way of Sites,
and Money at low rates of interest, and the
backing of a powerful Company.

✦ **TWENTY-SIX** ✦ **INDUSTRIES** ✦

HAVE LOCATED HERE THE LAST FOUR MONTHS.

Water Communication with the Mississippi River all the Year Round.

*Immense forests of Hard Wood and Pine and boundless quantities of Coal and Iron
 in easy reach. The workings of the Interstate Commerce Bill will render
 Northern competition practically out of the question.*

THE SUMMERS IN THIS REGION ARE COOL, THE WINTERS PLEASANT
 AND THE LOCALITY VERY HEALTHY.

Correspondence with Manufacturers Solicited. Address all Communications to

WM. E. FOREST, Secretary, - - DECATUR, ALA.

—THE—

TUSKALOOSA COAL, IRON & LAND CO.

Situated at Tuskaloosa, Alabama, a town of 6,000 inhabitants.

The Natural Pittsburg of the South. Located on the Alabama Great Southern Railroad, and on the Warrior River, the only navigable stream in the State which touches the Coal and Ore Fields.

OPEN NAVIGATION for eight months in the year to Mobile, and thence all water freights to the entire Atlantic and Gulf coast, and when the Isthmus is open to the Pacific coast also.

—THE TUSKALOOSA NORTHERN RAILWAY—

TO BE IMMEDIATELY BUILT THROUGH THE WARRIOR COAL FIELD.

Coal underlies the town. A five foot vein of fine tested coking coal opened within eight miles of town. Iron Ore within 5 miles south and 15 miles east on line of Alabama Great Southern Railroad. Abundance of lime immediately adjacent to ore.

Fine BRICK MATERIAL for both Common and Fire Brick

in and immediately around the town. Immense body of VIRGIN PINE TIMBER and all kinds of HARDWOODS within eight miles, on the line of the Tuskaloosa Northern Railroad.

* FINE × FARMING × COUNTRY *

Around and below the town. Best of drainage and water. Healthfulness proverbial. Seat of University of Alabama. Fine Public and Private Schools.

Combines all advantages—Finest natural location for the MANUFACTURE of IRON, COTTON GOODS, all articles made of wood, Plows, Wagons, Agricultural Implements, etc.

* 100-TON FURNACE TO BE ERECTED IMMEDIATELY. *

The Company owns 4,600 acres of City and Suburban Lands and 43,000 acres of Mineral and Timber Lands.

BUILDING LOTS now on Sale at Reasonable Prices. TERMS—One-fourth cash, balance in one, two and three years.

Manufacturers seeking a location will be dealt with on a broad and liberal basis.

CORRESPONDENCE SOLICITED. ADDRESS

TUSKALOOSA COAL, IRON & LAND CO., Tuskaloosa, Ala.

PITTSBURGH LOCOMOTIVE AND CAR WORKS,

PITTSBURGH, PA., Manufacturers of

Locomotive Engines for Broad or Narrow Gauge Roads,

From standard designs or according to specifications, to suit purchasers.

TANKS, LOCOMOTIVES OR STATIONARY BOILERS FURNISHED AT SHORT NOTICE.

A. STEWART, Pres't.

D. A. WIGHTMAN, Supt.

WILSON MILLER, Sec'y and Treas.



BUFFALO HAMMER CO., Buffalo, N. Y., U. S. A., Manufacturers of a full line of

Solid Cast Steel Hammers, Sledges, Mauls,



RAILROAD TRACK TOOLS, &c.

Every Hammer or Tool having our name is fully warranted. Catalogues and discounts sent on application.

BAGNALL & LOUD BLOCK CO. BOSTON, MASS.

Largest Manufacturers of Tackle Blocks in the World.

Manufacturers of the Latest Improved Self-Adjusting ROLLER BUSHED and GENUINE METALINE BUSHED and Iron Bushed Rope and Iron Strapped

TACKLE BLOCKS.

CLASP OPEN.



Improved Self-Adjusting Roller Bushed Iron Sheave.

Send for the Celebrated
STAR BRAND.



Improved Harcourt Patent Block.

Send for Catalogue
No. 5.



Improved Self-Locking Link Snatch Block.

SILVER & DEMING MFG. CO.

SALEM, OHIO,



Boiler Feed Pump.

Manufacturers of
Cistern, Well and
Force

PUMPS

IRON AND BRASS
CYLINDERS.

Wind Mill Pumps and
Supplies, Hand and Power
Rotary Pumps,

Boiler Feed Pumps,
Hydraulic Rams, Garden
Engines, &c.

Well Drillers' and Well
Drivers' Supplies.

Catalogue of Pumps
for Farm and Domestic
use, Mines, Factories
and Plantations, sent on
application.

Cleveland Machine Co.

**SUPERIOR
SOLID
STEEL
HEARS.**

FORGED
FROM

BAR STEEL

AND
TEMPERED
IN

OIL.

WE CHALLENGE COMPETITION FOR

→Cutting and Wearing Qualities.←

THE FINEST. AS GOOD AS THE BEST.

We Expect to Lead, and you cannot afford to lose a chance of keeping posted on the IMPROVEMENTS of the age. Get our prices, and then try a sample order. Your customers will compel you to order again.

Address, with name of paper where you saw this,

The CLEVELAND MACHINE CO., 143 to 161 Leonard St., CLEVELAND, O.

G. A. Crosby & Co.

MANUFACTURERS OF

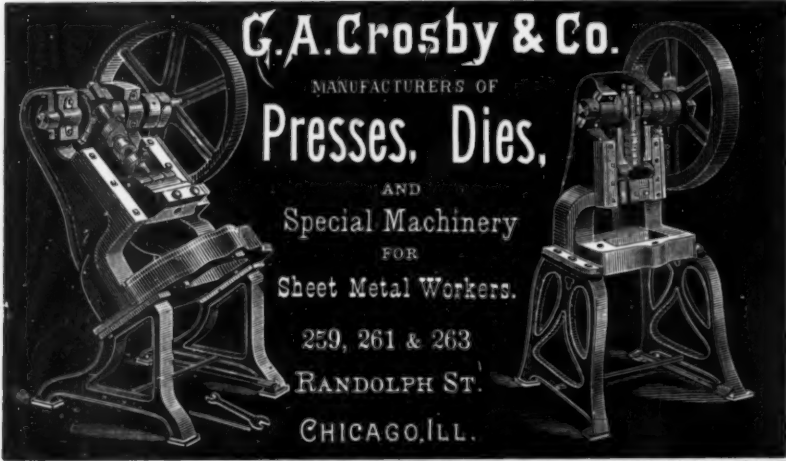
Presses, Dies,

AND
Special Machinery
FOR
Sheet Metal Workers.

259, 261 & 263

RANDOLPH ST.

CHICAGO, ILL.



NIAGARA STAMPING & TOOL CO.

BUFFALO, N. Y.

MANUFACTURERS OF

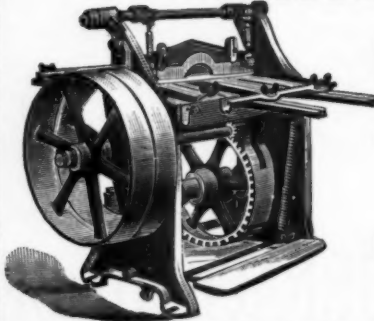
FOOT AND POWER SHEARING MACHINERY

AND

**Presses and Dies for Working
Sheet Metal.**

Power Chopping Shears for Nail and Tack
Plates, and for Cutting Steel for Cutlery,
etc., Works.

**Tinners' Machines
AND TOOLS OF ALL KINDS.**



Corrugating and Curving Rolls for Roofing, Siding and Ceiling. Squaring, Circle, and Hand
Shears. Send for our complete illustrated Catalogue and Price List, and Mention this paper.

Covert Manufacturing Company.



TRADE MARK.



The Greatest Emporium in the World for the best Snaps,
Chain, Rope and Web Goods, &c., manufactured, is
the celebrated works of the

Covert Manufacturing Co. West Troy, N. Y.

For Sale by all Jobbers Handling this Class of Goods.

D. SAUNDERS' SONS

MANUFACTURERS OF

**Pipe Cutting and
Threading Machines,**

For Pipe Mill and Steam
Fitters' Use.

Tapping Machines

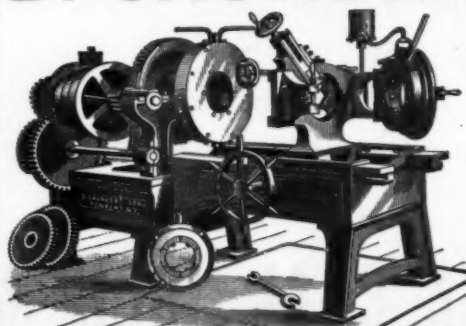
For Steam Fitting. Also,

**STEAM AND GAS FITTERS
HAND TOOLS,**

Atherton Street.

Send for Catalogue B.

YONKERS, N. Y.



SEND FOR CIRCULARS.

Wm. Chisholm & Sons

MANUFACTURERS OF

SOLID CAST STEEL

Shovels, Spades,

SCOOPS,

AND COAL SHOVELS

Cleveland, Ohio.

These goods are the acknowledged standard wherever there is hard work to be done, and are recommended for RAILROAD, MINING, FURNACE and CONTRACTORS' USE IN GENERAL.

Send for Catalogue.



THE F. F. ADAMS CO.

ERIE, PA.

MANUFACTURERS OF

Hardware Specialties

Household Articles,

WRINGERS, LADDERS,

Trucks, Cork Pullers,

MOUSE AND

RAT TRAPS

BREAD CUTTERS,

Lawn and Street Sprinklers,

STEAM FLUE CLEANERS,

Etc., Etc.

Agents wanted in every Southern city and town. Hardware dealers write for our catalogue and prices. Send for Sample Order.

Southwark Foundry and Machine Company,

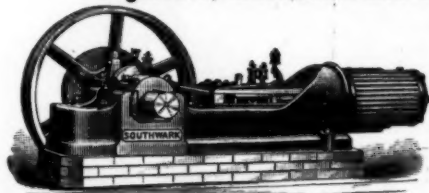
Engineers, Machinists and Boiler Makers,

SOLE MAKERS
Porter-Allen & Southwark
Engines.

Blowing & Reversing
Engines, Steel &
Hydraulic Machinery,
Boilers, Tanks,
and Gas Apparatus.

INQUIRIES SOLICITED.

Washington Avenue and Fifth Street, - - - PHILADELPHIA, PA.



SAVE YOUR POWER!

Prevent your Belts from Slipping by using

The National Pulley Covering.

EASILY APPLIED, CHEAP, EFFECTIVE.

No Rivets; can be put on by any one. Satisfaction Guaranteed.

Send for Circulars with Prices.

The National Pulley Covering Company,

BOWLY'S WHARF and WOODST., - - - BALTIMORE, MD.



ICE CREAM FREEZERS.

Peerless—3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7.50; 8 quart, \$9.00; 10 quart, \$11.00. Giant, with fly wheel, 14 quart, \$20.00; 18 quart, \$25.00; 21 quart, \$30.00; 25 quart, \$35.00; 30 quart, \$40.00; 42 quart, \$45.00. Discount, 50¢ to \$1.00.

American—3 quart, \$2.75; 6 quart, \$3.50; 8 quart, \$4.50; 10 quart, \$5.50; 14 quart, \$7.50; 18 quart, \$10.00; 21 quart, \$12.00; 25 quart, \$14.00; 30 quart, \$16.00; 42 quart, \$20.00. With fly wheel, 18 quart, \$25.00; 21 quart, \$30.00; 25 quart, \$35.00; 30 quart, \$40.00; 42 quart, \$45.00.

Star, double action, 3 quart, \$3.75; 6 quart, \$4.50; 8 quart, \$5.50; 10 quart, \$6.50; 14 quart, \$8.50; 18 quart, \$11.00; 21 quart, \$13.00; 25 quart, \$15.00; 30 quart, \$17.00; 42 quart, \$21.00.

Carriage, (Jap'd & c) gross, \$10.00; 12 gross, \$12.00; 24 gross, \$24.00; 36 gross, \$36.00; 48 gross, \$48.00; 60 gross, \$60.00; 72 gross, \$72.00; 84 gross, \$84.00; 96 gross, \$96.00; 108 gross, \$108.00; 120 gross, \$120.00; 132 gross, \$132.00; 144 gross, \$144.00; 156 gross, \$156.00; 168 gross, \$168.00; 180 gross, \$180.00; 192 gross, \$192.00; 204 gross, \$204.00; 216 gross, \$216.00; 228 gross, \$228.00; 240 gross, \$240.00; 252 gross, \$252.00; 264 gross, \$264.00; 276 gross, \$276.00; 288 gross, \$288.00; 300 gross, \$300.00; 312 gross, \$312.00; 324 gross, \$324.00; 336 gross, \$336.00; 348 gross, \$348.00; 360 gross, \$360.00; 372 gross, \$372.00; 384 gross, \$384.00; 396 gross, \$396.00; 408 gross, \$408.00; 420 gross, \$420.00; 432 gross, \$432.00; 444 gross, \$444.00; 456 gross, \$456.00; 468 gross, \$468.00; 480 gross, \$480.00; 492 gross, \$492.00; 504 gross, \$504.00; 516 gross, \$516.00; 528 gross, \$528.00; 540 gross, \$540.00; 552 gross, \$552.00; 564 gross, \$564.00; 576 gross, \$576.00; 588 gross, \$588.00; 600 gross, \$600.00; 612 gross, \$612.00; 624 gross, \$624.00; 636 gross, \$636.00; 648 gross, \$648.00; 660 gross, \$660.00; 672 gross, \$672.00; 684 gross, \$684.00; 696 gross, \$696.00; 708 gross, \$708.00; 720 gross, \$720.00; 732 gross, \$732.00; 744 gross, \$744.00; 756 gross, \$756.00; 768 gross, \$768.00; 780 gross, \$780.00; 792 gross, \$792.00; 804 gross, \$804.00; 816 gross, \$816.00; 828 gross, \$828.00; 840 gross, \$840.00; 852 gross, \$852.00; 864 gross, \$864.00; 876 gross, \$876.00; 888 gross, \$888.00; 900 gross, \$900.00; 912 gross, \$912.00; 924 gross, \$924.00; 936 gross, \$936.00; 948 gross, \$948.00; 960 gross, \$960.00; 972 gross, \$972.00; 984 gross, \$984.00; 996 gross, \$996.00; 1008 gross, \$1008.00; 1020 gross, \$1020.00; 1032 gross, \$1032.00; 1044 gross, \$1044.00; 1056 gross, \$1056.00; 1068 gross, \$1068.00; 1080 gross, \$1080.00; 1092 gross, \$1092.00; 1104 gross, \$1104.00; 1116 gross, \$1116.00; 1128 gross, \$1128.00; 1140 gross, \$1140.00; 1152 gross, \$1152.00; 1164 gross, \$1164.00; 1176 gross, \$1176.00; 1188 gross, \$1188.00; 1200 gross, \$1200.00; 1212 gross, \$1212.00; 1224 gross, \$1224.00; 1236 gross, \$1236.00; 1248 gross, \$1248.00; 1260 gross, \$1260.00; 1272 gross, \$1272.00; 1284 gross, \$1284.00; 1296 gross, \$1296.00; 1308 gross, \$1308.00; 1320 gross, \$1320.00; 1332 gross, \$1332.00; 1344 gross, \$1344.00; 1356 gross, \$1356.00; 1368 gross, \$1368.00; 1380 gross, \$1380.00; 1392 gross, \$1392.00; 1404 gross, \$1404.00; 1416 gross, \$1416.00; 1428 gross, \$1428.00; 1440 gross, \$1440.00; 1452 gross, \$1452.00; 1464 gross, \$1464.00; 1476 gross, \$1476.00; 1488 gross, \$1488.00; 1500 gross, \$1500.00; 1512 gross, \$1512.00; 1524 gross, \$1524.00; 1536 gross, \$1536.00; 1548 gross, \$1548.00; 1560 gross, \$1560.00; 1572 gross, \$1572.00; 1584 gross, \$1584.00; 1596 gross, \$1596.00; 1608 gross, \$1608.00; 1620 gross, \$1620.00; 1632 gross, \$1632.00; 1644 gross, \$1644.00; 1656 gross, \$1656.00; 1668 gross, \$1668.00; 1680 gross, \$1680.00; 1692 gross, \$1692.00; 1704 gross, \$1704.00; 1716 gross, \$1716.00; 1728 gross, \$1728.00; 1740 gross, \$1740.00; 1752 gross, \$1752.00; 1764 gross, \$1764.00; 1776 gross, \$1776.00; 1788 gross, \$1788.00; 1800 gross, \$1800.00; 1812 gross, \$1812.00; 1824 gross, \$1824.00; 1836 gross, \$1836.00; 1848 gross, \$1848.00; 1860 gross, \$1860.00; 1872 gross, \$1872.00; 1884 gross, \$1884.00; 1896 gross, \$1896.00; 1908 gross, \$1908.00; 1920 gross, \$1920.00; 1932 gross, \$1932.00; 1944 gross, \$1944.00; 1956 gross, \$1956.00; 1968 gross, \$1968.00; 1980 gross, \$1980.00; 1992 gross, \$1992.00; 2004 gross, \$2004.00; 2016 gross, \$2016.00; 2028 gross, \$2028.00; 2040 gross, \$2040.00; 2052 gross, \$2052.00; 2064 gross, \$2064.00; 2076 gross, \$2076.00; 2088 gross, \$2088.00; 2100 gross, \$2100.00; 2112 gross, \$2112.00; 2124 gross, \$2124.00; 2136 gross, \$2136.00; 2148 gross, \$2148.00; 2160 gross, \$2160.00; 2172 gross, \$2172.00; 2184 gross, \$2184.00; 2196 gross, \$2196.00; 2208 gross, \$2208.00; 2220 gross, \$2220.00; 2232 gross, \$2232.00; 2244 gross, \$2244.00; 2256 gross, \$2256.00; 2268 gross, \$2268.00; 2280 gross, \$2280.00; 2292 gross, \$2292.00; 2304 gross, \$2304.00; 2316 gross, \$2316.00; 2328 gross, \$2328.00; 2340 gross, \$2340.00; 2352 gross, \$2352.00; 2364 gross, \$2364.00; 2376 gross, \$2376.00; 2388 gross, \$2388.00; 2400 gross, \$2400.00; 2412 gross, \$2412.00; 2424 gross, \$2424.00; 2436 gross, \$2436.00; 2448 gross, \$2448.00; 2460 gross, \$2460.00; 2472 gross, \$2472.00; 2484 gross, \$2484.00; 2496 gross, \$2496.00; 2508 gross, \$2508.00; 2520 gross, \$2520.00; 2532 gross, \$2532.00; 2544 gross, \$2544.00; 2556 gross, \$2556.00; 2568 gross, \$2568.00; 2580 gross, \$2580.00; 2592 gross, \$2592.00; 2604 gross, \$2604.00; 2616 gross, \$2616.00; 2628 gross, \$2628.00; 2640 gross, \$2640.00; 2652 gross, \$2652.00; 2664 gross, \$2664.00; 2676 gross, \$2676.00; 2688 gross, \$2688.00; 2700 gross, \$2700.00; 2712 gross, \$2712.00; 2724 gross, \$2724.00; 2736 gross, \$2736.00; 2748 gross, \$2748.00; 2760 gross, \$2760.00; 2772 gross, \$2772.00; 2784 gross, \$2784.00; 2796 gross, \$2796.00; 2808 gross, \$2808.00; 2820 gross, \$2820.00; 2832 gross, \$2832.00; 2844 gross, \$2844.00; 2856 gross, \$2856.00; 2868 gross, \$2868.00; 2880 gross, \$2880.00; 2892 gross, \$2892.00; 2904 gross, \$2904.00; 2916 gross, \$2916.00; 2928 gross, \$2928.00; 2940 gross, \$2940.00; 2952 gross, \$2952.00; 2964 gross, \$2964.00; 2976 gross, \$2976.00; 2988 gross, \$2988.00; 3000 gross, \$3000.00; 3012 gross, \$3012.00; 3024 gross, \$3024.00; 3036 gross, \$3036.00; 3048 gross, \$3048.00; 3060 gross, \$3060.00; 3072 gross, \$3072.00; 3084 gross, \$3084.00; 3096 gross, \$3096.00; 3108 gross, \$3108.00; 3120 gross, \$3120.00; 3132 gross, \$3132.00; 3144 gross, \$3144.00; 3156 gross, \$3156.00; 3168 gross, \$3168.00; 3180 gross, \$3180.00; 3192 gross, \$3192.00; 3204 gross, \$3204.00; 3216 gross, \$3216.00; 3228 gross, \$3228.00; 3240 gross, \$3240.00; 3252 gross, \$3252.00; 3264 gross, \$3264.00; 3276 gross, \$3276.00; 3288 gross, \$3288.00; 3300 gross, \$3300.00; 3312 gross, \$3312.00; 3324 gross, \$3324.00; 3336 gross, \$3336.00; 3348 gross, \$3348.00; 3360 gross, \$3360.00; 3372 gross, \$3372.00; 3384 gross, \$3384.00; 3396 gross, \$3396.00; 3408 gross, \$3408.00; 3420 gross, \$3420.00; 3432 gross, \$3432.00; 3444 gross, \$3444.00; 3456 gross, \$3456.00; 3468 gross, \$3468.00; 3480 gross, \$3480.00; 3492 gross, \$3492.00; 3504 gross, \$3504.00; 3516 gross, \$3516.00; 3528 gross, \$3528.00; 3540 gross, \$3540.00; 3552 gross, \$3552.00; 3564 gross, \$3564.00; 3576 gross, \$3576.00; 3588 gross, \$3588.00; 3600 gross, \$3600.00; 3612 gross, \$3612.00; 3624 gross, \$3624.00; 3636 gross, \$3636.00; 3648 gross, \$3648.00; 3660 gross, \$3660.00; 3672 gross, \$3672.00; 3684 gross, \$3684.00; 3696 gross, \$3696.00; 3708 gross, \$3708.00; 3720 gross, \$3720.00; 3732 gross, \$3732.00; 3744 gross, \$3744.00; 3756 gross, \$3756.00; 3768 gross, \$3768.00; 3780 gross, \$3780.00; 3792 gross, \$3792.00; 3804 gross, \$3804.00; 3816 gross, \$3816.00; 3828 gross, \$3828.00; 3840 gross, \$3840.00; 3852 gross, \$3852.00; 3864 gross, \$3864.00; 3876 gross, \$3876.00; 3888 gross, \$3888.00; 3900 gross, \$3900.00; 3912 gross, \$3912.00; 3924 gross, \$3924.00; 3936 gross, \$3936.00; 3948 gross, \$3948.00; 3960 gross, \$3960.00; 3972 gross, \$3972.00; 3984 gross, \$3984.00; 3996 gross, \$3996.00; 4008 gross, \$4008.00; 4020 gross, \$4020.00; 4032 gross, \$4032.00; 4044 gross, \$4044.00; 4056 gross, \$4056.00; 4068 gross, \$4068.00; 4080 gross, \$4080.00; 4092 gross, \$4092.00; 4104 gross, \$4104.00; 4116 gross, \$4116.00; 4128 gross, \$4128.00; 4140 gross, \$4140.00; 4152 gross, \$4152.00; 4164 gross, \$4164.00; 4176 gross, \$4176.00; 4188 gross, \$4188.00; 4200 gross, \$4200.00; 4212 gross, \$4212.00; 4224 gross, \$4224.00; 4236 gross, \$4236.00; 4248 gross, \$4248.00; 4260 gross, \$4260.00; 4272 gross, \$4272.00; 4284 gross, \$4284.00; 4296 gross, \$4296.00; 4308 gross, \$4308.00; 4320 gross, \$4320.00; 4332 gross, \$4332.00; 4344 gross, \$4344.00; 4356 gross, \$4356.00; 4368 gross, \$4368.00; 4380 gross, \$4380.00; 4392 gross, \$4392.00; 4404 gross, \$4404.00; 4416 gross, \$4416.00; 4428 gross, \$4428.00; 4440 gross, \$4440.00; 4452 gross, \$4452.00; 4464 gross, \$4464.00; 4476 gross, \$4476.00; 4488 gross, \$4488.00; 4500 gross, \$4500.00; 4512 gross, \$4512.00; 4524 gross, \$4524.00; 4536 gross, \$4536.00; 4548 gross, \$4548.00; 4560 gross, \$4560.00; 4572 gross, \$4572.00; 4584 gross, \$4584.00; 4596 gross, \$4596.00; 4608 gross, \$4608.00; 4620 gross, \$4620.00; 4632 gross, \$4632.00; 4644 gross, \$4644.00; 4656 gross, \$4656.00; 4668 gross, \$4668.00; 4680 gross, \$4680.00; 4692 gross, \$4692.00; 4704 gross, \$4704.00; 4716 gross, \$4716.00; 4728 gross, \$4728.00; 4740 gross, \$4740.00; 4752 gross, \$4752.00; 4764 gross, \$4764.00; 4776 gross, \$4776.00; 4788 gross, \$4788.00; 4800 gross, \$4800.00; 4812 gross, \$4812.00; 4824 gross, \$4824.00; 4836 gross, \$4836.00; 4848 gross, \$4848.00; 4860 gross, \$4860.00; 4872 gross, \$4872.00; 4884 gross, \$4884.00; 4896 gross, \$4896.00; 4908 gross, \$4908.00; 4920 gross, \$4920.00; 4932 gross, \$4932.00; 4944 gross, \$4944.00; 4956 gross, \$4956.00; 4968 gross, \$4968.00; 4980 gross, \$4980.00; 4992 gross, \$4992.00; 5004 gross, \$5004.00; 5016 gross, \$5016.00; 5028 gross, \$5028.00; 5040 gross, \$5040.00; 5052 gross, \$5052.00; 5064 gross, \$5064.00; 5076 gross, \$5076.00; 5088 gross, \$5088.00; 5100 gross, \$5100.00; 5112 gross, \$5112.00; 5124 gross, \$5124.00; 5136 gross, \$5136.00; 5148 gross, \$5148.00; 5160 gross, \$5160.00; 5172 gross, \$5172.00; 5184 gross, \$5184.00; 5196 gross, \$5196.00; 5208 gross, \$5208.00; 5220 gross, \$5220.00; 5232 gross, \$5232.00; 5244 gross, \$5244.00; 5256 gross, \$5256.00; 5268 gross, \$5268.00; 5280 gross, \$5280.00; 5292 gross, \$5292.00; 5304 gross, \$5304.00; 5316 gross, \$5316.00; 5328 gross, \$5328.00; 5340 gross, \$5340.00; 5352 gross, \$5352.00; 5364 gross, \$5364.00; 5376 gross, \$5376.00; 5388 gross, \$5388.00; 5400 gross, \$5400.00; 5412 gross, \$5412.00; 5424 gross, \$5424.00; 5436 gross, \$5436.00; 5448 gross, \$5448.00; 5460 gross, \$5460.00; 5472 gross, \$5472.00; 5484 gross, \$5484.00; 5496 gross, \$5496.00; 5508 gross, \$5508.00; 5520 gross, \$5520.00; 5532 gross, \$5532.00; 5544 gross, \$5544.00; 5556 gross, \$5556.00; 5568 gross, \$5568.00; 5580 gross, \$5580.00; 5592 gross, \$5592.00; 5604 gross, \$5604.00; 5616 gross, \$5616.00; 5628 gross, \$5628.00; 5640 gross, \$5640.00; 5652 gross, \$5652.00; 5664 gross, \$5664.00; 5676 gross, \$5676.00; 5688 gross, \$5688.00; 5700 gross, \$5700.00; 5712 gross, \$5712.00; 5724 gross, \$5724.00; 5736 gross, \$5736.00; 5748 gross, \$5748.00; 5760 gross, \$5760.00; 5772 gross, \$5772.00; 5784 gross, \$5784.00; 5796 gross, \$5796.00; 5808 gross, \$5808.00; 5820 gross, \$5820.00; 5832 gross, \$5832.00; 5844 gross, \$5844.00; 5856 gross, \$5856.00; 5868 gross, \$5868.00; 5880 gross, \$5880.00; 5892 gross, \$5892.00; 5904 gross, \$5904.00; 5916 gross, \$5916.00; 5928 gross, \$5928.00; 5940 gross, \$5940.00; 5952 gross, \$5952.00; 5964 gross, \$5964.00; 5976 gross, \$5976.00; 5988 gross, \$5988.00; 6000 gross, \$6000.00; 6012 gross, \$6012.00; 6024 gross, \$6024.00; 6036 gross, \$6036.00; 6048 gross, \$6048.00; 6060 gross, \$6060.00; 6072 gross, \$6072.00; 6084 gross, \$6084.00; 6096 gross, \$6096.00; 6108 gross, \$6108.00; 6120 gross, \$6120.00; 6132 gross, \$6132.00; 6144 gross, \$6144.00; 6156 gross, \$6156.00; 6168 gross, \$6168.00; 6180 gross, \$6180.00; 6192 gross, \$6192.00; 6204 gross, \$6204.00; 6216 gross, \$6216.00; 6228 gross, \$6228.00; 6240 gross, \$6240.00; 6252 gross, \$6252.00; 6264 gross, \$6264.00; 6276 gross, \$6276.00; 6288 gross, \$6288.00; 6300 gross, \$6300.00; 6312 gross, \$6312.00; 6324 gross, \$6324.00; 6336 gross, \$6336.00; 6348 gross, \$6348.00; 6360 gross, \$6360.00; 6372 gross, \$6372.00; 6384 gross, \$6384.00; 6396 gross, \$6396.00; 6408 gross, \$6408.00; 6420 gross, \$6420.00; 6432 gross, \$6432.00; 6444 gross, \$6444.00; 6456 gross, \$6456.00; 6468 gross, \$6468.00; 6480 gross, \$6480.00; 6492 gross, \$6492.00; 6504 gross, \$6504.00; 6516 gross, \$6516.00; 6528 gross, \$6528.00; 6540 gross, \$6540.00; 6552 gross, \$6552.00; 6564 gross, \$6564.00; 6576 gross, \$6576.00; 6588 gross, \$6588.00; 6600 gross, \$6600.00; 6612 gross, \$6612.00; 6624 gross, \$6624.00; 6636 gross, \$6636.00; 6648 gross, \$6648.00; 6660 gross, \$6660.00; 6672 gross, \$6672.00; 6684 gross, \$6684.00; 6696 gross, \$6696.00; 6708 gross, \$6708.00; 6720 gross, \$6720.00; 6732 gross, \$6732.00; 6744 gross, \$6744.00; 6756 gross, \$6756.00; 6768 gross, \$6768.00; 6780 gross, \$6780.00; 6792 gross, \$6792.00; 6804 gross, \$6804.00; 6816 gross, \$6816.00; 6828 gross, \$6828.00; 6840 gross, \$6840.00; 6852 gross, \$6852.00; 6864 gross, \$6864.00; 6876 gross, \$6876.00; 6888 gross, \$6888.00; 6900 gross, \$6900.00; 6912 gross, \$6912.00; 6924 gross, \$6924.00; 6936 gross, \$6936.00; 6948 gross, \$6948.00; 6960 gross, \$6960.00; 6972 gross, \$6972.00; 6984 gross, \$6984.00; 6996 gross, \$6996.00; 7008 gross, \$7008.00; 7020 gross, \$7020.00; 7032 gross, \$7032.00; 7044 gross, \$7044.00; 7056 gross, \$7056.00; 7068 gross, \$7068.00; 7080 gross, \$7080.00; 7092 gross, \$7092.00; 7104 gross, \$7104.00; 7116 gross, \$7116.00; 7128 gross, \$7128.00; 7140 gross, \$7140.00; 7152 gross, \$7152.00; 7164 gross, \$7164.00; 7176 gross, \$7176.00; 7188 gross, \$7188.00; 7200 gross, \$7200.00; 7212 gross, \$7212.00; 7224 gross, \$7224.00; 7236 gross, \$7236.00; 7248 gross, \$7248.00; 7260 gross, \$7260.00; 7272 gross, \$7272.00; 7284 gross, \$7284.00; 7296 gross, \$7296.00; 7308 gross, \$7308.00; 7320 gross, \$7320.00; 7332 gross, \$7332.00; 7344 gross, \$7344.00; 7356 gross, \$7356.00; 7368 gross, \$7368.00; 7380 gross, \$7380.00; 7392 gross, \$7392.00; 7404 gross, \$7404.00; 7416 gross, \$7416.00; 7428 gross, \$7428.00; 7440 gross, \$7440.00; 7452 gross, \$7452.00; 7464 gross, \$7464.00; 7476 gross, \$7476.00; 7488 gross, \$7488.00; 7500 gross, \$7500.00; 7512 gross, \$7512.00; 7524 gross, \$7524.00; 7536 gross, \$7536.00; 7548 gross, \$7548.00; 7560 gross, \$7560.00; 75

SILVER PLATED WARE.
 Wm. Rogers Manf. Co.dis 50&10
 Holmes, Booth & Hayden ..dis 50&10
 Wallace's Steel Silver Plated...dis 33&10
 Rogers Bros 1847 ..dis 50&10
 C. Rogers & Bro.dis 50&10

SCREWS.
 Standard new list, Feb. 15.
 Flat Head Bright.....70¢
 Round Head Bright.....65¢
 Flat Head Brass.....65¢
 Round Head Brass.....60¢
 Flat Head Blue (add 5¢ to net).....70¢
 Brass and Silver Capped.....40¢
 Japanned Flat Head.....65¢
 Coach, Patent Gimlet Point.....dis 66¢
 Coach, Common or Lag.....dis 70¢
 Bed.....dis 55¢
 Machine, Flat Head, Iron.....dis 55¢
 Bench, Round Head, Iron.....dis 58¢
 Bench, Iron.....dis 58¢
 Bench, Wood, Beach.....dis 25¢
 Bench, Wood, Hickory.....dis 25¢
 Hand, Wood.....dis 25¢
 Hand Rail, Sargent's.....dis 60¢
 Hand Rail, Humason, Beckley & Co.'s.....dis 40¢
 Hand Rail, Am. Screw Co., list Jan. 1, '81.....dis 70¢
 Jack (Wilson's).....dis 25¢

SCREEN FRAMES AND FIXTURES.
 Standard Window Screens No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Porter's Patent Window and Door Screen Frames:

PER DOZ. SETS.
 In White Walnut
 No. 20.....\$2.75 \$3.25
 No. 21.....2.25 2.00
 No. 22.....5.50 6.75
 No. 23.....6.00 7.50
 No. 24.....9.00 11.00

Porter's Corners—
 No. 0. Corners and Sticks complete for a three-foot window, 1/2 doz sets, Bronzed, \$2.40; Nickel, \$2.50

No. 1. 1/2. " " 1/2 doz sets, Bronzed, \$3.25; Nickel, \$3.50

No. 4. " " 1/2 doz sets, Bronzed, \$4.00; Nickel, \$4.25

No. 1/2. " " 1/2 doz sets, Bronzed, \$1.20; Nickel, \$1.30

No. 4 1/2. " " 1/2 doz sets, Bronzed, \$2.00; Nickel, \$2.25

No. 3 1/2. " " 1/2 doz sets, Bronzed, \$6.75; Nickel, \$7.00

No. 3. " " 1/2 doz sets, Bronzed, \$12.00; Nickel, \$12.50

Boughton's Adjus. Window and Door Screens, dis 25¢
 Boughton's Adjus. Window and Door Frames, dis 20¢
 Window screen frames (Stuart's).....dis 25¢

SHEARS AND SCISSORS.
 American (Cast) Iron.....dis 70&10
 Pruning.....see Pruning Hooks and Shears
 Barnard's Lamp Trimmers.....dis 40¢
 Tinner's.....dis 20¢
 Massachusetts.....dis 60&10
 Seymour's.....dis 60&10
 Jersey Shears.....dis 80¢
 J. Wiss & Son, Nickel, 50¢; Japanned, 60&10

SHEAVES.
 Sliding Door, M. W. & Co., List.....dis 45¢
 Sliding Door, R. & E. list.....dis 60¢
 Sliding Door, Patent Roller.....dis 60&10
 Sliding Door, Pt. Roller, Hatfield's.....dis 60&10
 Sliding Door, Russell's Anti-Friction.....dis 60&10
 Also see Hangers.

SHOVELS AND SPADES.
 Ames, New List, November 1, 1885.....dis 20¢
 Griffiths.....dis 50¢
 Remington's (Lowman's Patent).....dis 30¢
 Rowland's.....dis 60¢
 Lippincott, new list.....dis 25¢
 Hussey, Hins & Co.....dis 25¢

SILVER PLATED HOLLOW WARE.
 Wm. Rogers Manf. Co.....dis 50¢
 Meriden Britannia Co.....dis 40¢

SOLDERING IRONS AND COPPERS.
 Covert's Soldering Irons.....dis 35¢
 Covert's Adjustable Coppers.....dis 35¢

SPOONS.
 Britannia.....dis 60, 10&10
 Tinned, Iron, Table and Tea.....dis 65¢
 Tinned Iron Basting.....dis 30¢
 German Silver.....dis 40&10

STONE.
 Hindostan No. 1, 40; Axe, 50.....net
 Sand Stone.....No. 1, 60, dis 33&10
 Washita Stone.....No. 1, 20c. net.
 Washita Stone, Slips.....No. 1, 45c. net.
 Arkansas.....\$1.50 1/2 lb. net

SQUARES.
 Steel.....dis 60&10; full cases, dis 70&10
 Iron.....dis 60&10; full cases, dis 70&10
 Nickel Plated.....add \$2.50 1/2 doz net.
 Try Square and T Bevels.....dis 50&10
 Weston's Try Square and T Bevels.....dis 40¢

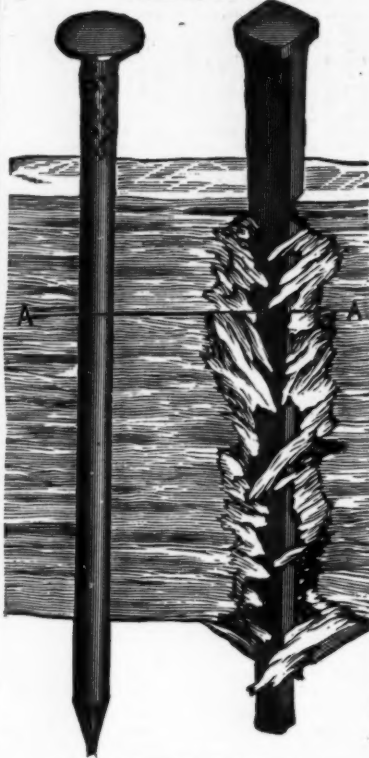
TACKS, BRADS, AC.
 American Iron Carpet Tacks, all kinds.....7¢
 Steel Carpet Tacks, all kinds.....7¢
 Swedes Iron Carpet Tacks, all kinds.....7¢
 Swedes Iron Upholsterers' Tacks.....6 1/2¢
 Tinned Swedes Iron Tacks.....6 1/2¢
 Tinned Swedes Iron Upholsterers' Tacks.....6 1/2¢
 American Iron Cut Tacks.....6 1/2¢
 Gimp and Lace Tacks.....6 1/2¢
 Tinned Gimp and Lace Tacks.....6 1/2¢
 Copper Tacks.....50¢
 Copper Finishing and Trunk Nails.....50¢
 Cigar Box Nails.....45¢
 Finishing Nails.....60¢
 Trunk and Clout Nails.....60¢
 Tinned Trunk and Clout Nails.....60¢
 Basket Nails.....60¢
 Chair Nails.....60¢
 Zinc Glaciers' Points.....45¢
 Common and Patent Brads.....60¢
 Hungarian Nails and Miners' Tacks.....60¢
 Tinned Capped Trunk Nails.....50¢
 Looking Glass Tacks.....40¢
 Picture Frame Points.....40¢
 Leathered Carpet Tacks.....40¢
 Brush Tacks.....40¢

TAP BORERS.
 Common and Ring.....dis 20¢
 Ives' Tap Borers.....dis 15&10
 Enterprise Mfg. Co.....dis 25¢

TOBACCO CUTTERS.
 Enterprise Mfg. Co (Champion).....dis 20&10
 Wood Bottom.....dis 25¢
 All Iron.....dis 50¢, dis 40&10
 Wilson's.....dis 50¢

The Salem Wire Nail Co.

SALEM, OHIO.



SALES AGENT FOR THE SOUTH:

CHAS. B. MELISH.
 4 Higgins Block, - Cincinnati, Ohio.

\$250 WILL BUY



THE BEST SAW MILL
 Yet offered for the money.
 SEND FOR CIRCULAR.
 RICHMOND MACHINE WORKS,
 RICHMOND, INDIANA.

JOHN G MENGEL & Co.
 BALTIMORE, MD.

TYPEFOUNDERS

Complete Newspaper and Job outfits promptly furnished for cash or on reasonable terms. All of our type is of new and modern cut, cast in a superior hard and tough copper-mixed metal, on the labor-saving system of point bodies.

ELECTROTYPERS

All the latest and most approved machinery and good workmen for turning out large quantities of first-class work.

ENGRAVERS

ON WOOD AND METAL.
 BY FIRST-CLASS ARTISTS. Send for estimates.

PRINTERS SUPPLIES

Large stock of all kinds, by the best makers, AT THE LOWEST PRICES.

PRINTING PRESSES & MACHINERY

Agents for all the leading makes of Cylinder and Job Presses, Paper-Cutters, &c. Have bargains always in Second-hand Machinery.

Our Leader New Old-Style Gordon Job Press at Second-hand Prices:

Fourth-Medium, 8 x 12, boxed and shipped \$150
 Quarto-Medium, 10 x 14, " " 250
 Half-Medium, 13 x 19, " " 350

OUR NEW SPECIMEN BOOK

Most complete ever published, sent to all responsible printers or designing purchasers, on application.

JOHN G. MENGEL & Co.
 Baltimore, Md.

STEARNS' BENCH DRILL

LOW IN PRICE. HIGH IN FINISH.

24 inches high. Run of Screw, 3/4 inches. Bearings carefully finished with standard reamers. All parts interchangeable. Extension crank for large drilling. Chuck holds 1/2 round or tapered square drill.

FOR SALE BY THE TRADE
 E. C. STEARNS & Co.
 SYRACUSE, N. Y.

FOOT POWER SCROLL SAWS!

CIRCULAR SAWS, LATHES, MORTISES, &c., FOR WORKSHOP USE.

Sold on Trial, if desired New Catalogue Free.

SENECA FALLS MFG. CO.
 642 Water Street,
 SENECA FALLS, N. Y.

CHAMPION APPLE PAPER.

Slices in half circle, requiring no hand work. Two Knife Apple Paper can be applied by two turns of the crank. Manufactured by READING HARDWARE CO., Reading, Pa.

CLARK'S

N. W. Drying, Exhaust AND VENTILATING FANS.

Patent Adjustable Wings. Capacity quickly increased or diminished. Self-Oiling Bearings. Light Running. Durable.

Price List Free.

GEO. P. CLARK, Windsor Locks, Ct.

CHAMPION IRON FENCE CO.

KENTON, OHIO.

Largest Iron Fence and Railing Works in U.

SPECIALTIES—Iron Stairs and Jail Work, Builders' and Ornamental Iron Work, and the only manufacturers of Malleable Iron Cresting, guaranteed against breakage; also manufacturers of the Celebrated Ohio Champion Iron Fence and Lift Pumps.

Send for 150-page Catalogue.

THE WOODRUFF'S PATENT CELEBRATED AMERICAN SUSPENDING EAVE TROUGH HANGER. The best in the world. Manufactured by GEO. W. HEARTLEY, 303 St. Clair St., Toledo, Ohio. Send for prices.

Hardware and Gun Trade: Quote our

\$5 Clay Pigeon Trap.

Electrotypes furnished gratis for catalogues. Liberal commissions. 80-page book free. Address

LIGOWSKY CLAY PIGEON CO., Cincinnati, O.

Automotive Cut Off Engines

Embodiment of a new system of Absolute Regulation against a change of load and boiler pressure. The most perfect governing ever obtained. Send for circular.

We guarantee better regulation than any other engine to give.

BALL ENGINE CO., ERIE, PA.

THERMOMETERS.
 Tin Case.....dis 75&10
 Stem Glasses.....dis 25¢

TOR CALKS.
 Winsted.....dis 50¢

TRAPS.
 Game, Newhouse.....dis 35¢
 Game, Oneida Pattern.....dis 60&10
 Game, Blake's Patent.....dis 40&10
 Mouse, Wood, Choker.....dis 10¢
 Mouse, Round Wire.....dis 10¢
 Mouse, Wire.....dis 10¢
 Mouse, Catch-em-alive.....dis 10¢
 Mouse, Cyclon.....dis 10¢
 Mouse, Ideal.....dis 10¢
 Rat, "Decoy".....dis 10¢
 Delusion Mouse, per doz.....dis 10¢
 Ideal.....dis 10¢

TROWELS.
 Lothrop's Brick and Plastering.....dis 30¢
 Reed's Brick and Plastering.....dis 15¢
 Disston's Brick and Plastering.....dis 20¢
 Clement & Maynard's.....dis 20¢
 Worrall's Brick.....dis 20¢
 Braden & Walby's.....dis 20¢
 Garden.....dis 20¢
 Rose's Brick.....dis 20¢

TRUCKS (WAREHOUSE, &c.)
 Handy Truck.....dis 25¢
 Penfield Block Co's list, 1884.....dis 35¢
 Peerless, with Cogs, No. 3.....dis 50¢
 Peerless, with Cogs, No. 4.....dis 60¢
 Kureka, No. 2.....dis 40¢

VISES.
 Cheney's Combined Vise and Anvil.....dis 30¢
 Solid Box—Wilson's.....dis 50&10
 Trenton.....dis 40&10
 Iron City Tool Works.....dis 50&10
 Manner Drill Mfg. Co's—
 Machinist's Vise.....dis 50¢
 Bench—Wilson's.....dis 45¢
 Trenton.....dis 25¢
 Parker's.....dis 20¢
 Prentiss.....dis 25¢
 Bonney's.....dis 35¢
 Well Wheels.....dis 60&10
 Stephen's Patent Vises.....dis 10¢

WIRE.
 Brass and Copper, list of Jan. 17, 1884.....dis 25¢
 Bright and Annealed.....Nos. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85,

MANUFACTURERS OF
GLOBE
"STANDING SEAM"
IRON ROOFING.
—
Excelsior
V-Crimped
IRON ROOFING.
—
READY-ROLL
CAPPED ROOFING.



Corrugated Iron,
All Desired Gauges and
Sizes.
Painted,
Calaminated,
Galvanized.
—
Send for our de-
scriptive and illus-
trated catalogue.
—
PRICES and ESTIMATES
promptly furnished.

CRIMPED & CORRUGATED
IRON ROOFING,
SIDING.
CEILING.
METAL
SHINGLES.
W.G. HYNDMAN & CO.
SEND FOR CIRCULAR & PRICES CINCINNATI, O.

HOLTON IRON ROOFING CO., NEW LISBON, O.

Manufacturers of
ROOFING,
SIDING,
CEILING, &c.



Millions of feet in
use, our work is
second to none.
Fully guaranteed of
the best materials
and construction.

Agents Wanted Everywhere.

Information Furnished on Application

CANTON IRON ROOFING CO., CANTON, OHIO,

SUCCESSORS TO T. C. SNYDER & CO., MANUFACTURERS OF

ROOFING

Cheaper than Shingles. Fire and light-
ning proof. Made
of best refined char-
coal iron, sheet steel
and calaminated iron.



Corrugated Iron
Roofing and Siding,
Beaded Iron Ceiling
and Siding, Crimped
Edge Roofing and
Siding, Roof Paint,
Roofers' Paper, &c.

Send for Catalogue, Price List and Samples.

GARRY IRON ROOFING COMPANY.

Largest manufacturers of

Iron Roofing in the world.

Manufacturers of all kinds of

IRON ROOFING,

Crimped and Corrugated Siding,

Iron Tile or Shingles,

Fire-Proof Doors, Shutters, Iron

frames, for roofs, buildings, &c.



IRON ORE PAINT

AND CEMENT.

152-158 Merwin Street

CLEVELAND, O.

Send for Circular and Price

List No. 99.

METAL SKYLIGHTS



And VENTILATORS for Mills, Stores and Dwellings.

Galvanized Iron and Copper Cornices and

Gutters. Metal Shingles. Sheet Metal Work

for buildings. Send for illustrated circular.

E. VAN NOORDEN & CO.

383 Harrison Avenue, - - BOSTON.



**Issues Policies of Insurance after Careful In-
spection of the Boilers, covering Loss or
damage to property, and Loss of Life
and Personal Injury
—ARISING FROM STEAM BOILER EXPLOSIONS.—**

Full information concerning the plan of the Company's operations can be obtained at the

COMPANY'S OFFICE, Hartford, Conn., or at any agency.

M. ALLEN, Pres't. W. B. FRANKLIN, Vice-Pres't. J. B. PIERCE, Sec'y.

—BOARD OF DIRECTORS:—

J. M. ALLEN, President.

LUCIUS J. HENDEE, President Minn. Fire Insurance Co.

F. W. CLEMENT, Asst. Treas. Chesney Bros. Bk. Mfg. Co.

CHARLES M. BEACH, of Beach & Co.

DANIEL PHILLIPS, of Adams Express Co.

R. W. H. JARVIS, Pres't Colt's Fire Arms Mfg. Co.

THOMAS O. ENDERS, Secretary Minn. Life Insurance Co.

LEVERETT BRAINARD, of Chase, Lockwood & Brainard.

MON. H. C. ROBINSON, Attorney-at-Law, Hartford.

LAWFORD & McKIM, Agents for Maryland, 22 Second St., Baltimore, Md.

GEN. WM. B. FRANKLIN, Vice-President Colt's Patent
Fire Arms Manufacturing Co.
NEWTON CASE, of Case, Lockwood & Brainard, Hartford.
NELSON HOLLISTER, of State Bank, Hartford.
CHAS. T. PARRY, of Baldwin Locomotive Works, Phila.
EDMUND A. STEDMAN, Treasurer Fidelity Co., Hart-
ford, Conn.
CLAPP SPOONER, N. E. Manager Adams Express Co.,
Bridgeport, Conn.

THE OLDEST. THE LARGEST. THE BEST.

The best of Testimonials from every State and Territory.

ALL KINDS Iron Roofing & Corrugated Iron

PORTER IRON ROOFING CO. CINCINNATI, OHIO.



Cambridge Roofing Company,

—MANUFACTURERS OF—

CROWL'S PATENT STANDING SEAM,

Plain Rolled, Corrugated and Crimped Edge,

Roofing, Siding and Ceiling. Made of Steel and Charcoal Iron; awarded

first medal by the New Orleans Exposition.

CAMBRIDGE, OHIO.

SYKES IRON ROOFING CO., NILES, O.

SYKES'
IMPROVED
Best Roof in the
World.
Suitable for all
classes of
Buildings,
Easy Put On.



All my Iron is
Re-Rolled and
Box Annealed,
well Painted on
both sides with
Best of Paint
and Pure Lin-
seed Oil.

Send for Circular and Price List, and mention this Paper.

THE SARGENT MFG. Co.

Specialties.

NECESSITY, COMFORT, LUXURY.



Fig. 1.



Fig. 2.



Fig. 3.

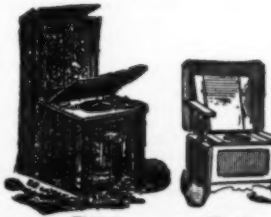


Fig. 4.

1. **Sargent's Monarch, Empress and Premier Reclining Chairs.** These Chairs are the best of their class made in the world, having an almost endless variety of positions, made of the best material, and are upholstered to insure perfect rest. They range in price from \$35.00 to \$150.00. We also make a large variety of other styles, including our Favorite, Automatic Nos. 65, 85 and 103, which range in price from \$10.00 to \$60.00.

2. **Sargent's Invalid Rolling Chairs.** We represent but two of our numerous styles, which include all kinds, for house or street use, reclining and rigid, cane and upholstered.

3. **Sargent's Solid Comfort Back-Rest and Folding Bed Tray.** Treasures for invalids. Prices of Back-rest: No. 1, plain, \$4; No. 2, with arms, \$5; No. 3, with arms and head-rests, \$6. Prices of Trays: No. 1, 15x35 inches, \$3; No. 2, 17x35 inches, \$4.

4. **Earth Closets.** Its merits are incontestably established by 16 years' trial. As a sanitary measure as well as a convenience, it should be adopted in every country house.

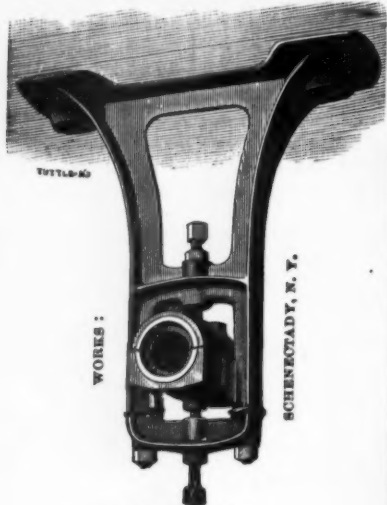
5. **Sargent's Sanitary Arm Commodes** are absolutely orderless. They have a double seat; broad arms that adjust independently; a metallic enameled pail with flexible rubber and metallic covers.

NOTE.—We make a specialty of Invalids' Appliances, and aim to supply every known device for the alleviation of suffering. Send for our 80-page Illustrated Catalogue.

SARGENT MFG. CO.

814 and 816 Broadway, NEW YORK.

SHAFTING DEPARTMENT EDISON MACHINE WORKS.



SALESROOM:

19 DEY STREET, N. Y.

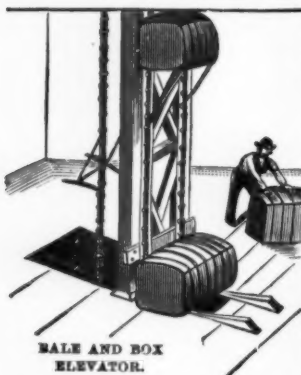
Shafting, Pulleys, Hangers,
Couplings, &c.

Write for Illustrated Price List with Discount.

Machine Molded Pulley Castings
for Sale Low.

Roller Chain Belting Co., Columbus, O.

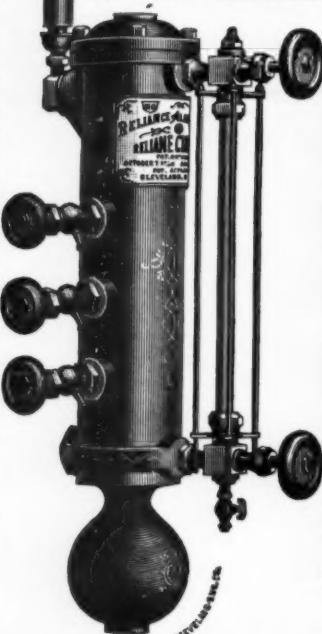
MANUFACTURERS OF

ELEVATORS, CONVEYERS,
DRIVING BELTS, for HandlingBALE AND BOX
ELEVATOR.

R. SWORMSTEDT & CO., Agents, Baltimore.

Barrels, Boxes, Bales, Grain, Coal, Ores, &c.
Illustrated Catalogue sent on application.
Correspondence solicited.

RELIANCE ALARM GAUGES.



EXPLOSIONS IMPOSSIBLE.

The only way to prevent boiler explo-
sions and be relieved of fear of loss of life and
property is to adopt the RELIANCE
SAFETY WATER COLUMNS. Have been
on the market for 2 years. Warranted for 5
years. Send for Catalogue.

RELIANCE GAUGE COMPANY,

Office, Argyle Building,

CLEVELAND, OHIO.



W. J. CLARK & BRO.

Manufacturers of

Hydrants.

These Hydrants are made
of the best material, and are
guaranteed to be entirely
non-wasting and non-freez-
ing. The works of these
Hydrants can be taken out
and repaired without break-
ing the ground. Send
for circular.38 N. Holliday Street,
BALTIMORE, MD.

GEM OF THE SOUTH MILL.

The BEST in the WORLD for
grinding Corn, Feed for Stock,
also Meal for Table Use.GENUINE
FRENCH BUHR STONES.Can be operated by any one.
Three sizes, from 1 to 8 horse
power. Suitable to any
Power. Satisfaction guar-
anteed. Prices low. Descrip-
tive Circular FREE. Mention this paper. Address

STRAUB MACHINERY CO., Cincinnati, O.

\$250 SINGLE. \$350 DOUBLE.

With Saw and
Tools.Top Saw Frame can be
added to Single Mill
when desired. Capac-
ity, 5,000 to 5,500 per
day with 3 men. 10 to
15 horse portable engine will
drive it. Agents wanted. Send for description
and terms.ROCKWOOD, NEWCOMB & CO.
180 to 190 S. Pennsylvania St., Indianapolis, Ind.

McShane & Bell Foundry

Fine Iron and Brass Castings Made to Order.

Manufacture those cele-
brated Bells for Tower
Clocks, Court-Houses,
Cotton Mills, Fac-
tories, &c. Prices and cata-
logues sent free. Address
H. McSHANE & CO.
Baltimore, Md.
in this Paper.

Gap Lathe \$25.

SHEPARD'S NEW \$60
SCREW-CUTTING FOOT LATHE
Foot and Power Lathes,
Drill Presses, Scroll-saw At-
tachments, Chucks, Man-
drels, Twist Drills, Dogs,
Calipers, etc.
Lathes on trial. Lathes on
payment.
Send for catalogue of out-
fits for Amateurs or Artisans.
ADDRESS,
H. L. SHEPARD, Agent, 136 E. Second St., Cin-
cinn., O.

ESTABLISHED 1860.

KREHL, HAUSER & CO.

TANNERS OF

OAK Leather.

ALSO MANUFACTURERS OF

Leather Belting,

Girard, Trumbull Co., Ohio.

SPECIALTIES—Harness, Black and Fair Brid-
les, Line Leather, Saddle and Shoe Skirting, Russett
and Stained Rein's Welt, Fly-Net and Collar Leather.
Superior Harness Backs, Pump Valve Leather. Write
for prices. Mention this Paper.

THE BAY LINE

FORTRESS MONROE, NORFOLK and the SOUTH.

The Bay Line comprises the New and Elegant Steamers
"VIRGINIA," "CAROLINA" and "FLORIDA."All the Comforts and Luxuries of a First-
Class Hotel are afforded the Traveler. Spacious
and Elegant Saloons and Staterooms, furnished
with an especial view to comfort. Unsurpassed
Cuisine, which is made a specialty with this
Line. Elegant service and courteous attention.
Steamers leave Baltimore daily except Sundays
at 9 P. M.At Old Point Comfort is located the SPLEN-
DID HYGELA HOTEL, a Delightful Resort
at all Seasons of the Year. For Tickets and
Information, apply at Company's office,
157 W. BALTIMORE ST., BALTIMORE,
Or on Board of Steamers.
D. J. HILL, Superintendent.

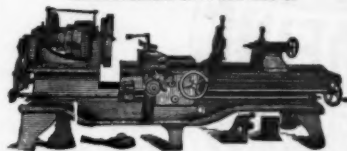
R. BROWN, General Ticket Agent.

Established 1867.
E. HARRINGTON, SON & CO.

Works and Office,

N. 15 St. & Penna. Ave., Phila., Pa.

Manufacturers of a full line of



Iron Working Machinery,

—INCLUDING—
Extension and Gap Lathes, Planers with Quick
Return, Drills, &c., Hand Power Elevators with
Patent Brake, Double Chain Screw Hoists, Over-
head Tramway with Switch, Turntable and Geared
Truck.
Gear Cutting a Specialty. Send for Estimates.REPRESENTED BY
J. Q. MAYNARD, 12 Cortlandt St., New York.
C. E. KIMBALL, 93 Oliver Street, Boston, Mass.
W. BUCHNER, 102 Main St., Cincinnati, Ohio.

The Very Best in the Market.

WILL NOT GET OUT OF ORDER.

These injectors now take
the lead over all others.

AND

AMERICAN INJECTOR COMPANY
Detroit, Mich., U. S. A.

WIRE RAILING

and Ornamental Wire Works.

DUPUR & CO. 36 N. Howard St., Baltimore.

Wire Railing for Cemeteries, Lawns, Gardens, Of-
fices and Balconies; Window Guards, Tree Guards,
Wire Cloth, Sieves, Fenders, Cages, Sand and Coal
Screens, Iron Bedsteads, Chairs, &c.

THE BRADSTREET

Mercantile Agency

HAS NOW BEEN

Under its present successful management for
the past seven years.And during that time its business has more than
trebled, while its facilities have propor-
tionately increased.No expense is considered too great in obtain-
ing and applying to the conduct of the business
all possible improvements. With its present
system for obtaining and promulgating infor-
mation, this Agency is justly regarded by its
patrons as authority on all matters affecting
commercial credit. Its ramifications are greater
and its business larger than any similar organi-
zation in the world conducted in one interest
and under one management.You are respectfully invited to investigate,
and if in need of an Agency, to test its ability
to serve you.

CHAS. F. CLARK, President.

Baltimore Office,—American Building,
H. KERSHAW, Supt.

FOR SALE.

One 50-ton Zero Ice Machine at half-price

Correspondence solicited.

R. P. GERLACH, Box 110, Cleveland, Ohio.

Look Carefully through this
paper and you may find an
advertisement of some ma-
chinery or other goods that
you are in need of. Preserve
this copy for future reference.

Fig. 133.

Improved Steam Jacket Kettle

PLAIN OR ENAMELED.

SIZES.
20 Gallons,
35 "
70 "
100 "



Fig. 134.

Double Jacket Steam Kettle.

SIZES.
1 Gallons,
6 "
10 "
15 "
25 "
30 "
50 "
60 "
80 "
125 "



Fig. 136.

Iron Double-bottom Steam Kettle.

WITHOUT JOINTS.

SIZES.
2 1/2 Gallons,
9 "
12 "
20 "
37 "

STEAM KETTLES,

Especially adapted to the requirements of
Canners, Butchers, Chemists, Confectioners,
Varnish Makers, etc., or, in fact, for any opera-
tion where the direct fire and the consequent
liability to burn the material is an objection.

PANCOAST & MAULE,

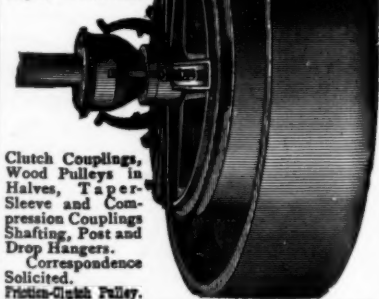
243 & 245 South Third Street,
PHILADELPHIA.Correspondence solicited from parties requiring
any Goods in the above lines.

Mention this Paper when you Address us.

TAPER-SLEEVE PULLEY WORKS.

No. 111 W. 12th Street,

ERIE, PA.

Manufacturers of
Taper-Sleeve Wood
Belt Pulleys, Adjust-
able Dead Pulleys,
Friction-Clutch Pul-
leys, FrictionClutch Couplings,
Wood Pulleys in
Halves, Taper-
Sleeve and Com-
pression Couplings
Shafting, Post and
Drop Hangers.
Correspondence
Solicited.
Friction-Clutch Pulley.

CHENEY & HEWLETT, Architectural Iron Works.

Wrought and Cast Iron Work
for Building Purposes.

N. CHENEY. C. HEWLETT.

OFFICE:
201 BROADWAY, NEW YORK.Book giving strength of wrought-iron girders,
beams and cast-iron columns mailed on application.

PORTLAND CEMENT.

German and English Brands of
Best Quality.

Send for tests and all particulars to

ERSKINE W. FISHER

WELLES BUILDING, No. 10 Broadway, - - NEW YORK.

The Babcock & Wilcox Water Tube Boilers.

BRANCH OFFICES:

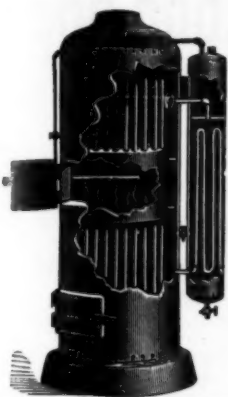
65 Oliver Street,
Boston.
38 N. 5th St.,
Philadelphia.
7 Spring St.,
Sydney, N. S. W.
57 Carondelet
St., N. Orleans.
Calle del Semi-
nario, No. 6,
City of Mexico.
217 E. Fayette St.,
Baltimore, Md.



BRANCH OFFICES

114 Newgate St.
London, Eng.
64 S. Canal St.
Chicago.
561 Mission St.,
San Francisco.
San Ignacio,
No. 50, Havana,
Cuba.
107 Hope Street,
Glasgow,
Scotland.

Manufactured by the **BABCOCK & WILCOX CO., 30 Cortlandt Street, NEW YORK.**



JOHN MITCHELL'S

Improved Combustion Chamber

BOILERS,

With Feed-Water Heater and Boiler Cleaner

ATTACHMENTS COMBINED.

From practical experience and actual tests, they are pronounced the most serviceable and economical Steam Boiler now in use, combining all the latest improvements in Feed-Water Heaters and Boiler Cleaners.

SIMPLE IN CONSTRUCTION AND DURABLE.

Shop Rights for Sale. Send for Circular and Price-List.

JOHN MITCHELL,
Louisville, Ky

Ludlow Valve Manfg. Co.

Office and Works:

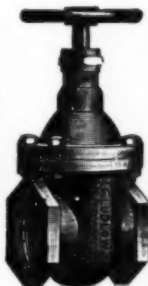
938 to 954 River Street, and 67 to 83 Vail Avenue,

—TROY, N. Y.—



VALVES

Double and Single Gate, 4 inch to 48 inch, outside and inside
Screws, Indicators, etc., for
Gas, Water, Steam, Oil.
Send for Circular.



Also Fire Hydrants, Yard and Wash Hydrants, Check and Foot Valves

OILS for WOOLEN MILLS a Specialty.

Established 1832.

WM. C. ROBINSON & SON,

MANUFACTURERS OF AND WHOLESALE DEALERS IN

OILS!

217 (Old No. 81) South Street,

BALTIMORE.

ELAIN OIL. Always satisfactory. Will scour out perfectly in any water.

LANA OIL. A very good oil, but does not scour out as well as Elain in very hard water.

OVEJA OIL. The best Mineral Oil made. Gives satisfaction to our trade who use it. Has a very good body, and scours well for a Mineral Oil.

WE ALSO CARRY IN STOCK:

B. W. SPERM OIL,
W. SPERM OIL,
PRIME LARD OIL,

COLOPHINE CYLINDER,
COLOPHINE ENGINE,
COLOPHINE SPINDLE,

PARAFFINE,
LUBRICATING,

AND ALL OTHER KINDS OF OIL.

Correspondence Solicited and Samples Forwarded, if desired.

The TABOR MANUFACTURING CO.

—SOLE MANUFACTURERS OF—

TABOR STEAM ENGINE GOVERNOR

Patented April, 1883, and December, 1884.

WILL REGULATE AS CLOSELY AS THE BEST AUTOMATIC CUT-OFF ENGINE.

Perfectly adapted to every type of Stationary and Portable Engine.
Fitted with speed adjuster, Sawyer's Lever and Automatic Safety Stop.

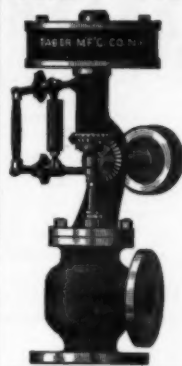
SIMPLE, SENSITIVE AND DURABLE.

All Parts Interchangeable.

SEND FOR SPECIAL CIRCULARS AND PRICE LISTS.

OFFICE AND SALESBROOM,

113 Liberty Street, - - - New York City.



CHICAGO CAR MOVER.

With it One Man Can Move a Loaded Car.

WEIGHT, INCLUDING HANDLE, 15 lbs.

Guaranteed not to break or get out of order.

Sent on 30 days' trial. If not satisfactory may be returned at my expense.

Price: Single Movers \$6; per Pair \$10.

Address **J. H. BANNON, Manufact'r,**
122 W. Madison St., Chicago, Ill.



THE
PREMIER FLOUR
OF AMERICA.
Patapsco Flouring Mills.

—ESTABLISHED 1774.—

The value of Flour depends upon the essential elements of nutrition contained in the bread it makes. Maryland and Virginia Wheat, from which our PATENT ROLLER FLOURS are chiefly manufactured, has long been conceded to be of most superior quality, because it has a better combination of gluten and phosphates than any other. This fact is recognized, not only in this country, but in the United Kingdom as well, where the "PATAPSCO SUPERLATIVE" commands decidedly more money than any other American Flour, thereby clearly demonstrating its superior qualities for making the whitest, sweetest and most nutritious bread.

ASK YOUR GROCER FOR IT, ALSO FOR

PATAPSCO FAMILY,
CAPE HENRY FAMILY,
PATAPSCO EXTRA,

NORTH POINT FAMILY,
CHESAPEAKE EXTRA,
BEDFORD FAMILY,

ORANGE GROVE EXTRA,
MAPLETON FAMILY,
PIMLICO (GRAHAM.)

C. A. GAMBRILL MFG CO.

Office, 32 Commerce St., Baltimore, Md.

A. HOEN & CO.

LITHOGRAPHERS, BALTIMORE MD.

Our facilities for the production of

ARTISTIC

Color Work

AND ALL STYLES OF

Fine Commercial Engraving

Are Unsurpassed.

All work executed under careful and personal supervision at prices consistent with first-class productions. Sole proprietors of the

CELEBRATED

LITHOCAUSTIC PROCESS

Branch Establishment: Moon Building, RICHMOND, VA.

ESTABLISHED 1835.



The True Idea of Assurance.
Women's Mutual Insurance and ACCIDENT COMPANY.

OFFICERS AND
ELIZABETH B. PHELPS, Pres.
MARGARET HOLCOMBE, Vice-Pres.
EMILY TAYLOR,
Elizabeth S. Roberts, H. Louise Gates,

DIRECTORS:
ELIZABETH HARDENBURGH, Treas.
CORNELIA KAMPING, Actuary,
Secretary,
Charlotte Mulligan, M. F. Hoagland.

MEDICAL EXAMINERS.

ALFRED K. HILLS, M. D., 465 Fifth Avenue.
JOHN A. KAMPING, Attorney and Counsel, 125 Broadway, New York.
Incorporated under the Laws of New York.

MARY PUTNAM JACOBI, M. D., 110 W. 54th Street
DEPOSITORY OF RESERVE FUND:
FARMERS' LOAN AND TRUST CO., New York City.

ITS OBJECT.
This company is the pioneer in throwing down the bars of unjust discrimination against women in life insurance. Statistics and common observation prove mortality to be in favor of females at every age, and married as well as single. To remove this prejudice, and to secure to women an equal estimation in her insurability, the promoters of this enterprise have devoted themselves. Consistently with this principle WOMEN AND MEN are equally insured in this company without discrimination on account of sex.

ITS MEMBERSHIP
comprises persons between the ages of 18 and 60, of approved physical condition. The Life Class is separate and distinct from the Accident Class, members being liable for losses only occurring in the class to which they belong.

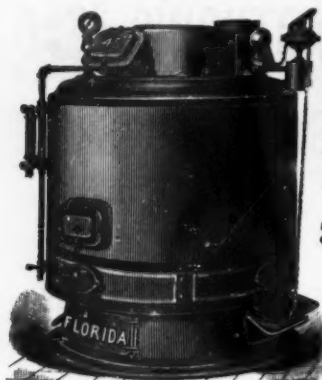
ITS PLAN
secures insurance at cost, and embraces the best features of similar associations, with such improvements added as enlightened experience has shown to be desirable for the member's advantage and the security of the association.

ITS SAFETY AND SECURITY
consists in its ECONOMICAL system, its IMPOSSIBILITY of insolvency, and its SECURITY RESERVE FUND.

FINALLY.
This company avoids complicated schemes and plans by means of which impossible results are promised. Its contracts are plain, easily fulfilled and liberal. It issues the following forms:

1. Ordinary Life Policy, \$100 to \$10,000.
2. Ordinary Accident Policy, \$5,000 death indemnity; \$25 weekly.
3. Combined Life and Accident Policy.
4. \$500 Savings Bond.

BANKERS:
BANK OF THE METROPOLIS, New York City.
DEPOSITORY OF RESERVE FUND:
FARMERS' LOAN AND TRUST CO., New York City.
The officers would be pleased to furnish any further particulars which may be desired in relation to the Company's affairs, or the way to obtain a policy.
Agents are desired in every city, village and district throughout the healthful sections of the country.
Address all communications to the
WOMEN'S MUTUAL INSURANCE AND ACCIDENT CO.,
125 BROADWAY, NEW YORK.



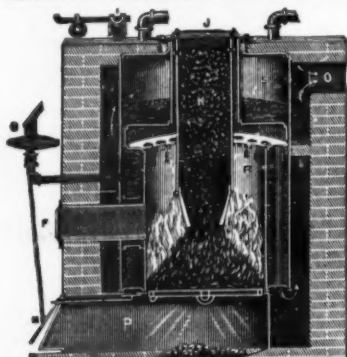
THE IMPROVED FLORIDA STEAM HEATER

The best and most complete House Heater in the world. Self-feeding, automatic, portable and saves all expense of brick-work. Most economical. Carries steam from 10 to 12 hours without attention. Compact. 14 sizes, from 4 to 6 feet high. Anti-clinker grate, easily shaken, no dust. Sales larger than the combined sales of all reputable Steam Heaters.

3500 in ACTUAL USE,

all giving the best satisfaction. Estimates furnished on application. Send for Illustrated Catalogue. Address

PIERCE, BUTLER & PIERCE MFG. CO.,
SOLE MANUFACTURERS, SYRACUSE, N. Y.
GENERAL AGENCIES:
GEO. H. COBB, 97 William St., New York, N. Y.
CRANE BROS. MFG. CO., Chicago, Ill.
JAS. H. ROBERTSON & CO., Baltimore, Md.
N. O. NELSON MFG. CO., St. Louis, Mo.
B. TABER & SON, Chicago, Ill.
JAMES P. WOOD & CO., Philadelphia, Pa.



THE DUNNING Patent Wrought-Iron Boiler,

With Self-Feeding Coal Magazine,

IS THE BEST FOR

LOW PRESSURE STEAM HEATING

And Insures a Warm House Day and Night.

Over 13,000 in use! Keeps Steam up Constantly.

Also, Steam Engines & Boilers of all kinds & Machinery generally

MANUFACTURED AT THE

New York Central Iron Works, 77 Exchange St., Geneva, N. Y.

Send for Illus. Catalogue with full description and price-list.

AGENTS WANTED. N. B.—Correspondence solicited from Architects and persons building.

THE RED JACKET STEAM BOILER

Flue Blower

Is the Cheapest

And Most

Reliable Flue Cleaner

In the Market.



Simple in construction,

Easy to Operate.

ECONOMIZES FUEL

And

Increases Boiler Capacity.

THIS FLUE BLOWER operates on an entirely new principle; is easily controlled by one hand. It stands without a rival and is pronounced by engineers the only perfect cleaner made. Write for circular and prices to

STEWART HEATER CO., 19 and 21 Clinton St., Buffalo, N. Y.

SAWYER-MAN ELECTRIC CO.

Licensed by and Succeeding to the Commercial Business of the

CONSOLIDATED ELECTRIC LIGHT COMPANY.

OWNERS

OF THE

SAWYER-MAN PATENTS.



GENERAL OFFICES:

Mutual Life Building,
No. 32 Nassau St., N. Y. City.

BALTIMORE OFFICE:

No. 217 E. Fayette St.

PHILADELPHIA OFFICE:

No. 205 Walnut Place.

BOSTON OFFICE:

No. 33 Federal Street.

The DYNAMO of this Company is AUTOMATIC in its regulation, and will maintain a UNIFORM LIGHT, with ALL or ANY PORTION of the lights in Circuit. Our LAMP will not BLACKEN and will MAINTAIN its CANDLE POWER during its Guaranteed life.

Plans and Estimates Furnished for all kinds of Incandescent Lighting.

ESTIMATES FURNISHED FOR THE THOMSON-HOUSTON SYSTEM OF ARC LIGHTING.

BROWN & KING, MANUFACTURERS OF COTTON MILL SPECIALTIES.

Roller Covering, Loom Pickers and Strapping.

Dealers in Roller Coverers, Stock and Tools; Cotton and Woolen Mill Supplies.

Full Line "Hick's" United States Standard Ring Travelers, Mill Wire Goods Spring Cotters, Belt Hooks, Lacing, &c., kept constantly on hand.

Wrought Iron Pipe Fittings and Brass Goods. Southern Agents for the celebrated "B. C. & D. Oak Tanned Patent Lap Belting, Galvin Compound Wedge Gate Valve, Imhauser's Watchman Time Detectors, Diamond Emery Wheel Machine Co., &c.

Office and Salesroom No. 62 S. Broad Street. ATLANTA, GA.

To Secure **SOUTHERN TRADE**
ADVERTISE IN THE
MANUFACTURERS' RECORD.

West Nashville, Tenn.

THE NEW

Manufacturing Town of the South.

THIRTEEN INDUSTRIES

WITH AN AGGREGATE

Capital Stock of over \$3,000,000.

Already Located There.

A CENTER OF THE

CHARCOAL IRON BUSINESS.

MANUFACTURING SITES

Given to All Desirable Applicants.

The new town is situated in the heart of the famous Mineral Region of Tennessee. The Climate is one of the best in the world. All the Commercial, Educational and Social Advantages of the old City of Nashville, with its population of 80,000, will be available to the people of West Nashville.

NASHVILLE, TENN.,

the most important distributing point of the South, which re-wholesales goods bought in the North, proposes to make hereafter these goods on her own soil.

In the saving of freight alone there is a dividend of ten to twenty per cent. on the stock of any concern that will remove from the North and manufacture its goods in West Nashville. The

NASHVILLE LAND IMPROVEMENT COMPANY,

organized to furnish ample manufacturing facilities, gives land and offers other inducements to substantial concerns wishing to remove from the North.

The Manufacturing Town of

WEST NASHVILLE

has a frontage of 2½ miles on the Cumberland River, that is navigable for 400 miles above Nashville, and below Nashville connects with the Ohio and Mississippi Rivers.

West Nashville has ample Railroad Facilities, by which it is connected with all the Railroad Systems of the United States.

Among other industries already located at West Nashville is the

NASHVILLE IRON, STEEL & CHARCOAL COMPANY,

with a capital stock of \$700,000, Gen. Willard Warner, President. This company is erecting two 50-ton Charcoal Blast Furnaces and Charcoal and Chemical Works, covering the treatment of 80,000 cords of wood annually.

Besides the industries located at West Nashville, we invite the establishment of Rolling Mills, Steel Plants, Boiler and Machine Shops, Nail and Horse-Shoe Plants, Plow and Wagon Factories, Planing Mills, Cotton and Woolen Mills, Boot and Shoe Shops and other industries.

For circulars, pamphlets and other information address

J. M. REILLY, Secretary,
13, 14 and 15 Cole Building,
NASHVILLE, TENN.

The Brunswick Lands Improvement & Colonization Co.

Subscription Books for the Capital Stock of this Company are now open

At the Offices of the Company, Brunswick, Ga., and at (Room 20) 229 Broadway, N. Y.; (Room 4) 85 Devonshire Street, Boston, Mass., and other Branch Offices of the Company until the 1st day of August, 1887.

The Company is formed under and by virtue of a Charter granted June 19, 1886, to ANDREW J. ROGERS, JAMES M. OLMSTEAD, HENRY S. WELLES, DANIEL W. CLARK, GEORGE E. SMITH, JOHN E. SAUNDERS, and FREDERICK G. BRUNEL, and their associates, in accordance with the Laws of the State of Georgia, to run for twenty years, with the right of renewal, and authorizing a Capital Stock of \$100,000, in shares of \$50 each, with power to increase the same at any time to any amount not exceeding \$10,000,000, payable in either money, or real or personal property that may be utilized in the business of the Company. The Charter is, by comity of the States, made operative throughout the entire country.

THE PRELIMINARY ORGANIZATION

Has been duly effected by electing the following named

OFFICERS.

ANDREW J. ROGERS, Prest. JAMES M. OLMSTEAD, Vice-Prest. GEO. E. SMITH, Sec. FRED'K G. BRUNEL, Treas.

DIRECTORS.

A. J. ROGERS, Brunswick, Ga., and 227 W. 10th St., New York. FREDERIC G. BRUNEL, Grand Union Hotel, New York.
JAMES M. OLMSTEAD, 85 Devonshire St., Boston, Mass. JOHN E. SAUNDERS, Nashville, Tennessee.
HENRY S. WELLES, 229 Broadway, New York. DANIEL W. CLARK, 11 Winthrop Street, Hartford, Conn.
GEORGE E. SMITH, 32 Broadway, New York. WILLIAM B. BURROUGHS, Brunswick, Ga.

EXECUTIVE COMMITTEE.

ANDREW J. ROGERS, HENRY S. WELLES, FREDERICK G. BRUNEL, WILLIAM B. BURROUGHS.

The said Officers and Directors to hold over until the First Meeting of the Stockholders.

INCREASE OF THE CAPITAL STOCK.

In order to promptly acquire ample areas of Land and Harbor Water frontage, for colonization, wharfing and other purposes, as well as obtaining sufficient funds for carrying out the several objects of the Company, the Directors have duly voted an increase of the Capital Stock from \$100,000 to \$3,000,000, payable in either money or in any real or personal property that may be utilized in the business of the Company, (as provided in the charter,) and have authorized the opening of Subscription Books for said \$3,000,000 of Capital Stock.

EUROPEAN CO-OPERATION.

The President of the Company has perfected arrangements with competent European parties whereby they agree to subscribe, or cause to be subscribed, two-thirds of said \$3,000,000 of Capital Stock, provided the other one-third of said Stock is duly subscribed in America, and to pay in \$200,000 for every \$100,000 thereof that shall have been so subscribed in America and paid into the treasury of the Company.

TRANS-ATLANTIC STEAMSHIP LINE.

The President of the Company has also arranged with competent European ship owners for promptly putting on and maintaining a Trans-Atlantic Steamship Line between the port of Brunswick, Ga., and ports in the United Kingdom; said line to comprise a fleet capable of doing all the trans-Atlantic shipping business of the Company, and to be put on as soon as the Company announces itself ready with freights, etc., for trans-Atlantic shipment.

THE GENERAL ENTERPRISE

Comprises the building up and maintaining an extensive domestic and foreign trade at and through the city and port of Brunswick, Ga., and corresponding ports, and engaging in a general system of Lands Improvement, particularly including the building up, extending and beautifying the city and suburbs, and improving and perfecting the Harbor of Brunswick for maritime commerce, and generally aiding in developing the agricultural, mineral and other natural resources of, and settling the surrounding districts and corresponding sections of the interior, with the view to participating in the general benefits and increase in value of properties accruing from such developments and improvements, and to inaugurate and conduct

BUREAUS OF COLONIZATION AND INDUSTRY

As special departments of the General enterprise for commercially engaging in such systems of Colonization and Co operative Industries as will, from time to time, aid in relieving the Labor Markets of all surplus artisans and other workers, including the worthy, able bodied indigent classes, by drawing them off and settling or aiding them in settling and getting fairly started on alternate lots of the Company's Lands, in suitable rural and growing village districts, or so employing or aiding them to find such suitable employment as will make them reciprocally useful to the Company and ensure their becoming self-sustaining and prosperous constituents of the commonwealth, and finally reimbursing the Company with fair profits for all such assistance, thus materially aiding in freeing society of its worthy, able-bodied, destitute and suffering industrious classes by reclaiming them from all anarchical tendencies, and thence through their own prosperity readjusting them as good, law-abiding and patriotic citizens of the Commonwealth.

THE COMMERCIAL DEPARTMENT.

With the foregoing objects in view, the Company will engage in the following enterprises, taking them up and carrying them forward in such business order as will ensure the prosperity of every department of the General Undertakings, beginning with The Commercial Department proper, it being the only medium through which the more benevolent and humane purposes can be successfully carried into effect with profit to the Company. The Directors are already assured of a large paying business from the commencement of active operations in the following specified enterprises, in which the Company will be constantly turning over its funds and realizing from 5 per cent. upwards of net profits every sixty or ninety days. Viz: A General

TRANS-ATLANTIC and Coastwise SHIPPING BUSINESS

Including storing, wharfing and forwarding at and through said port and corresponding ports, and the sending of goods and other valuables through in bond or by through bills of lading to and from any and all points; the advancing of money on bills of lading and on goods and other property in store; and acting as merchants and general agents, and doing a banking and general commission business. In these departments alone the Company will find constant, active, safe and profitable employment for a considerable amount of its capital, thereby ensuring fair dividends from the start.

OTHER SOURCES OF REVENUE.

By judicious purchases, both in respect to price and locality of lands, as well as the suitability of the climate, and thence properly settling immigrants on alternate

The Stock of the Company will be Receivable at Par in Payment for Lands purchased from the Company.

ANDREW J. ROGERS, Prest. B. L. I. & C. Co.

229 BROADWAY, (Room 20,) NEW YORK.

lots thereof, carefully reserving every alternate farm or section for sale later on, the Company could reasonably expect to realize from 10 to 25 per cent. net on sales of the first alternate farms or other lots, and thence, in future further realizing from 100 to 500 per cent. and upwards from the ultimate sales of the reserved building lots, farms or sections. This plan carried out on a commensurate scale would of itself, without risk of the capital invested, enrich any well-managed company.

GENERAL LANDS IMPROVEMENT DEPARTMENT.

To buy, own and sell lands and deal in real estate and leaseholds generally, and to engage in a general system of Lands Improvement, particularly including the building up, extending and beautifying the City of Brunswick and Suburban districts, and generally developing and settling the surrounding country; the establishing and settling colonies in the interiors of the various States, and parts of States, wherein immigrant settlers and other industrial classes are needed; laying out and building up villages, towns, and cities; making roads, streets and all necessary and profitable improvements; aiding in the fuller development of the vast agricultural, mineral and other

NATURAL RESOURCES OF THE SOUTH,

Southwest and corresponding sections; the breeding and rearing of horses, mules, cattle and live stock generally, for home and foreign markets; the laying out, improving, stocking and working farms of all kinds; developing water powers for manufacturing, milling and other purposes; opening and working coal, iron and other mines, and marble and stone quarries, with a view to making money by profitably employing the idle, and making homes and livings for the worthy, able-bodied indigent classes, as well as making the several properties productive and generally enhancing the values thereof and making them more saleable. In fact, the company offers

SAFE AND PROFITABLE INVESTMENTS

In every department of the General Enterprise, basing the stability of the entire Capital Stock not only upon the General Business of the Company but upon real estate carefully chosen for its intrinsic worth, its suitability for the purposes of the Company and its improvable qualities and possible continual enhancement in value from direct and surrounding improvements.

BRUNSWICK'S ADVANTAGES in Respect to DISTANCES.

The use of the port of Brunswick for shipping purposes, effects a saving of distances to and from the following named cities as compared with New York, as follows: Louisville, about 125 miles; Denver, 250; Cheyenne, 260; St. Louis, 275; Kansas City, 300; Chattanooga, 450; Memphis, 475; Nashville, 500; San Francisco, 505; Santa Fe, 579; Tepicobampo, (Mexico), 640; Atlanta, 667; Augusta, 687; Galveston, 700; Austin, 775; Fort Worth, 790; Montgomery, 827; New Orleans, 916; San Diego, 1,160 miles. This statement is of no less importance to emigrants than to shippers of merchandise. It should also be borne in mind that Brunswick is, by ocean route, very much nearer Liverpool than is either New Orleans or Galveston, and has the further advantage of being free from the risks always to be incurred in rounding the Florida Reefs, and the consequent heavy insurance.

THESE SEVERAL ADVANTAGES

In respect to distances, together with the central position and superiority of the harbor, and the widely extending railway connections, must necessarily ensure to the port of Brunswick a very large proportion of the export trade and corresponding import trade of the South, Southwest and Pacific Slope, especially as this port will thenceforward have such direct and regular Trans-Atlantic connections with foreign markets, as well as such improved facilities for discharging and loading ships, as will enable it to successfully compete with other and older ports.

For a fuller statement of the PURPOSES and PLANS of the Company, see the Charter and Prospectuses, Documents Nos. 1, 2 and 3 of the Company's pamphlets, which can be obtained at the Offices of the Agents, or from any of the Officers of the Company.

FORMS OF APPLICATION

For Stock on the part of those who may desire to subscribe to the Capital Stock, but are unable to reach the Agent or Officer in charge of the Subscription Books, will, on application in writing to such Agent or Officer, or to the President of the Company, be forwarded, together with the necessary instructions for securing the number of Shares such Applicant may desire or that may be allotted to him or her.

PROPOSALS FOR TRANSFERRING LANDS

Or other available property in exchange for Stock in the Company will be entertained, and the suitability, quality and value of the property and titles thereto will be duly examined by proper experts in the interest of the Company; but all such proposals must be submitted in writing to an Agent or Officer, or to the President of the Company on or before the 1st day of August next, and must be accompanied with a full description, giving all particulars, including the situation and value of such property.

Brick Makers' Supplies.



PERFECTION BRICK PRESS,

An easy-working, quick-operating and powerful press. Will successfully press brick made on any Brick or Tile Machine.

The Wrought-Iron Tempering Wheel,
The most thorough mud temperer known. Tempers faster, mixes better and runs lighter than any wheel made.

Barrows, Trucks, Molds, Kiln Doors, &c.

Write us for prices.

C. W. RAYMOND & CO.
DAYTON, O.

Mention Manufacturers' Record.

The Spiral Pug Mill —AND— QUAKER BRICK MACHINE.

Capacity 40,000 Perfect Brick Per Day
Great Saving in Labor and Expense

We contract to furnish complete Brick-yard outfits,—Engines and everything needed complete. Write for our handsomely illustrated catalogue, containing valuable information. Estimates furnished. Correspondence solicited. Address

FLETCHER & THOMAS, Indianapolis, Ind.

Mention Manufacturers' Record.



WALKER MANFG. CO.

Shafting,
Hangers,
Pulleys.

Pulley Castings and
Machine-Molded

GEARING

A SPECIALTY.

Cleveland, - Ohio.

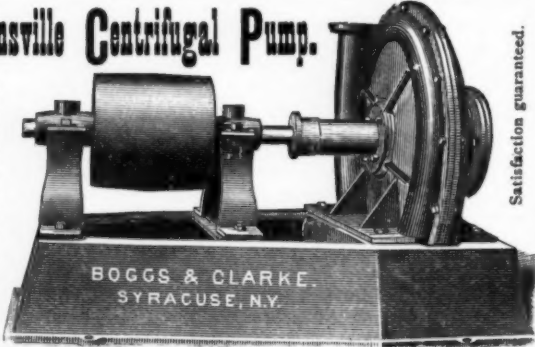
Estimates furnished. Write
for Gear and Price-Lists A.



THE ORIGINAL Improved Baldwinsville Centrifugal Pump.

Sent on trial for thirty days to responsible parties. Our patterns are new and of the best design. Our shop has been fitted up with new tools and appliances of the best manufacture. Being practical machinists for the past twenty-five years, we feel confident we can give the best satisfaction, and therefore we guarantee our work as to prices and quality in every respect. More in use than any other make. Correspondence solicited.

Address
BOGGS & CLARKE
123 and 125 N. Clinton St.,
SYRACUSE, N. Y.



Satisfaction guaranteed.



Held to the Wind
BY THE HORSE.

and

Regulated by the Reoster.

VI

Lightning Well Sinking Machinery.

THE LARGEST MANUFACTURERS OF WELL TOOLS.

WE have sunk 400 feet in ten hours with the REVOLVING PROCESS, 100 feet in 40 minutes by the JETTING PROCESS, and 196 feet in ten hours,—without removing the tools from the well,—by the HYDRAULIC PROCESS. We have averaged one foot in ten minutes, to a depth of 650 feet, with our **DIAMOND POINTED ROCK DRILLS.** We issue an "Encyclopedia of Well Sinking Appliances," containing 700 Engravings, illustrating and describing all the practical Tools used in Well Sinking. We also manufacture Wind Mills, Artesian Pumping Engines and Appliances. We will send this Book on receipt of 25 Cents for Mailing. Can direct purchasers to places where wells are required. Drillers and Agents Wanted. Address

THE AMERICAN WELL WORKS, Aurora, Ill., U. S. A.

DIAMOND BIT.



STEEL CASTINGS

FROM 1-4 to 15,000 lbs. WEIGHT.

True to pattern, sound, solid, free from blow-holes, and of unequal strength.

Stronger and more durable than iron forgings in any position or for any service whatever.

40,000 CRANK SHAFTS and 30,000 GEAR WHEELS of this steel now running prove this.

CRANK SHAFTS and GEARING specialties.

STEEL CASTINGS of every description.

Send for Circulars and Prices to

CHESTER STEEL CASTINGS CO.

Office, 407 Library Street, Philadelphia.

Works, Chester, Pa.

DEAN BROS. STEAM PUMP WORKS.



BOILER FEEDER
PUMPING MACHINERY
FOR ALL PURPOSES.

BREWERS AIR PUMP

FIRE PUMP

DUPLEX PUMP

INDIANAPOLIS, IND.

SEND FOR CATALOGUE
AND PRICES.

WHY THIS IS PUT HERE!



NEW PULSOMETER,

THE CHEAPEST AND BEST STEAM PUMP IN THE MARKET. PRICES LOWER THAN ANY OTHER.

More Efficient, Simple, Durable, and more Economical, both as to running expenses and repairs, than any other Steam Pump.

For Mining, Railroad or Steamboat use, Paper Mill, Chemical or Gas Works, Tannery, Brewery or Sugar Refineries, Draining Quarries, Cellars or Plantations, Irrigating or Hydraulic Mining.

Call or write for our new 36 page Illustrated Descriptive Book containing Full Particulars, Reduced Net Prices, and hundreds of A-1 Testimonials. Mailed Free.

Pulsometer Steam Pump Co., 83 John Street, N. Y.

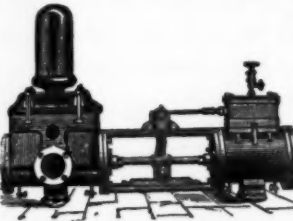
BLAKESLEE MANFG. CO.

67 WASHINGTON ST.,
DU QUOIN, ILL.

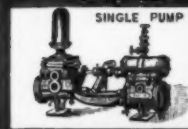
STEAM PUMPS

FOR ALL PURPOSES.

SEND FOR CATALOGUE



STEAM PUMPS.



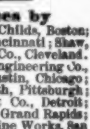
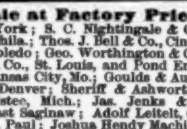
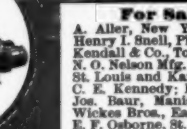
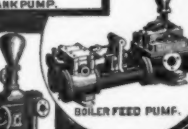
VALLEY MACHINE CO. EASTHAMPTON, MASS.

THE VOLKER & FELTHOUSEN MFG. CO.

MANUFACTURERS OF

BUFFALO DUPLEX STEAM PUMPS.

STURGEON GENERAL'S OFFICE, BUFFALO, N.Y.



For Sale at Factory Prices by
A. Allen, New York; S. C. Nightingale & Childs, Boston;
Henry I. Smith, Phila.; Thos. J. Bell & Co., Cincinnati; Shaw,
Kendall & Co., Toledo; Geo. Worthington & Co., Cleveland;
N. O. Nelson Mfg. Co., St. Louis, and Pond Engineering Co.,
St. Louis and Kansas City, Mo.; Goulds & Austin, Chicago;
C. E. Kennedy, Denver; Sheriff & Ashworth, Pittsburgh;
Jon. Baur, Marquette, Mich.; Jas. Jenks & Co., Detroit;
Wickes Bros., East Saginaw; Adolf Leitelt, Grand Rapids;
E. F. Osborne, St. Paul; Joshua Hendy Machine Works, San
Francisco; Flynn & Emrich, Baltimore; Forbes, Liddell &
Co., Montgomery; Bailey & Leiby, Charleston, S. C.; O. B.
Goodwin, Norfolk; Rundle, Spence & Co., Milwaukee;
Columbus Supply Co., Columbus, O.

Steam Pumps

FOR EVERY DUTY.

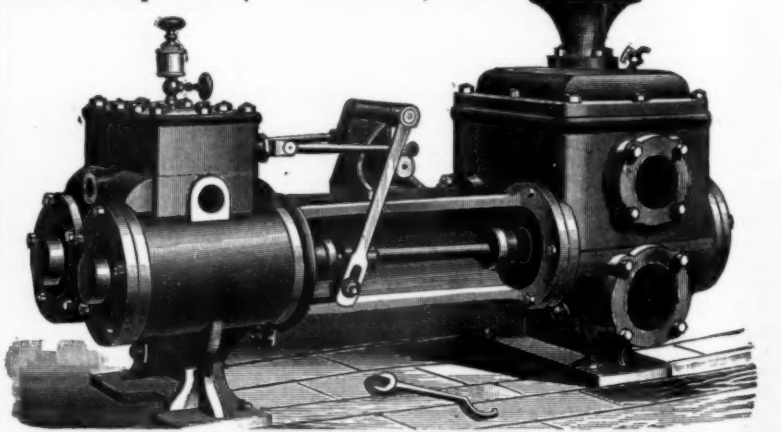
BEST MATERIALS ONLY USED.

FULLY GUARANTEED AND TESTED.

It will pay you to write for prices.

HUGHES BROS.

Steam Pump Works, Cleveland, Ohio.



IMPROVED DUPLEX PUMP.

Shafting, Hangers.

Castings of every
Description made.
Stationary, Distillery
Mill and Boiler Work.

JNO. N. MARQUETTE, 118 W. Falls Ave., {Near Falls Street} BALTIMORE, MD.

PORTABLE and STATIONARY ENGINES and BOILERS.

Hunt Dogs Clamp Both Upper and Under
Side of Log.

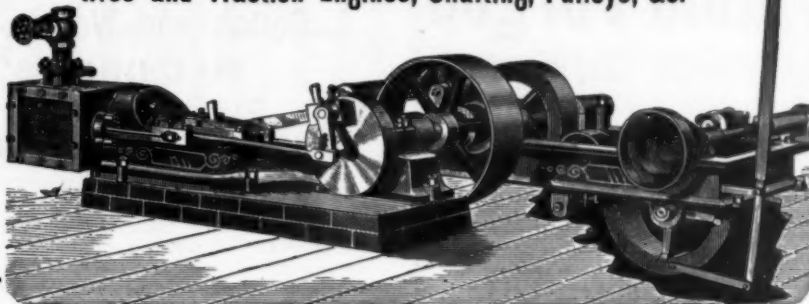
FIVE SIZES BELT MILLS.

Four Sizes Direct Attachment Saw Mills

THREE STYLES

First Class Sets.

Spoke and Handle Lathes, Cowles' Patent Pole Road Locomotives and Traction Engines, Shafting, Pulleys, &c.



DIRECT ATTACHMENT
SAW MILLS
Are No Experiment.

Mills built at this shop twenty years ago are running to-day, and we can furnish numerous testimonials proving that for the manufacture of lumber on a moderate scale, they are unequalled by any belt mill made. Our carriages are all iron except the feed rack bars. We give our customers their choice of Three First Class Sets. The Hunt Dog clamps both upper and under side of log. All of our mills have Log Turners, Sawdust Elevators, Log and Lumber Cars, Cant Hooks, Wrenches, Etc. We give more for the money than any concern in the country.

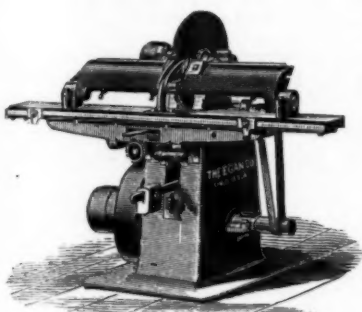
SEND FOR ILLUSTRATED CATALOGUE.

Spangenberg, Pendleton and Company, WARREN, OHIO.

WOOD WORKING MACHINERY.

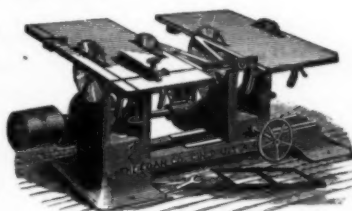
Of the Latest Improved Designs

For Furniture Factories, Planing and Saw Mills, Chair Factories, Piano and Organ Factories, Carriage and Wagon Works, Car Works, &c.



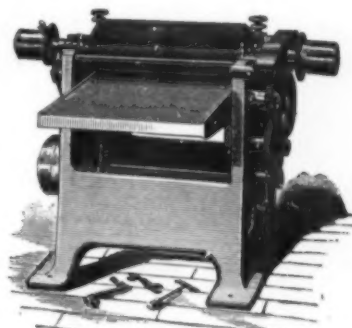
Automatic Knife Grinder.

WRITE FOR
QUOTATIONS.



Double Cutting-Off Saw.

SATISFACTION
GUARANTEED.



No. 2 1/2 Single Cylinder Surfacers.

THE EGAN COMPANY, MANUFACTURERS, 228 to 248 W. Front Street, CINCINNATI, O., U. S. A.

(3) THOS. P. EGAN, President.

EDWIN RUTHVEN, Secretary.

FREDERICK DANNER, Superintendent.

SOUTHERN SELLING AGENTS

CROOK, HORNER & CO.
Baltimore, Md.

SHAW & DAVIN
Birmingham, Ala.

HECKLENBURG IRON WORKS
Charlotte, N. C.

VALK & MURDOCH
Charleston, S. C.

E. V. WHITE & CO.
Norfolk, Va.

Boston

Philadelphia

Chicago

St. Louis

Worthington STEAM PUMPS

SEND FOR ILLUSTRATED CATALOGUE

HENRY R. WORTHINGTON
NEW YORK

SOUTHERN SELLING AGENTS

M. SCHWARTZ
New Orleans, La.

ATLANTA ENGINEERING CO.
Atlanta, Ga.

KENTUCKY MACHINERY CO.
Louisville, Ky.

W. H. PERRY
Nashville, Tenn.

LIVERMORE FOUNDRY & MACH. CO.
Memphis, Tenn.

San Francisco

E. C. HUXLEY, Pres.

T. L. STURTEVANT, Treas.

THE STURTEVANT MILL.

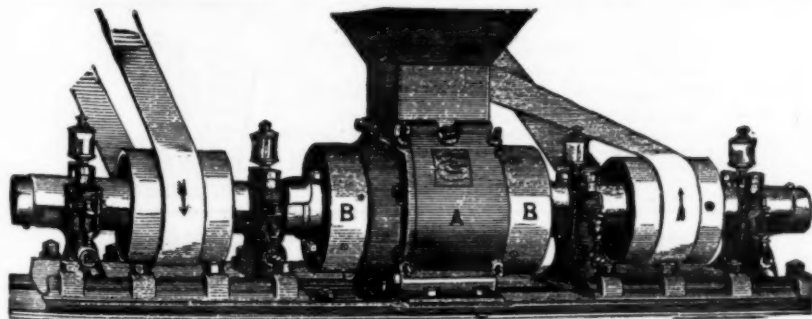
ROCK CRUSHER

—AND—

PULVERIZER COMBINED.

FOR GRINDING AND CRUSHING

ores, Phosphates, and Other Hard Substances.



Not this invention, as it is the first mill ever constructed where the rock is made to grind itself. The expense of wear and tear is 75 per cent. less than any machine ever invented. No expensive foundations. No skilled labor required. One mill equal to a 30-stamp battery and crushers combined, occupies space of 12 feet by 4 feet in width. These machines are in operation on a large scale. Every mill warranted to do all claimed for it. Send for catalogues of this wonderful machine and full information.

FRASER & CHALMERS, Sole Manufacturers,

45 Fulton Street, Chicago.

2 Wall Street, New York.

11 Calle de Juarez, Chihuahua, Mexico.

423 Blake Street, Denver

STURTEVANT MILL CO., 89 MASON BUILDING, BOSTON, MASS.

